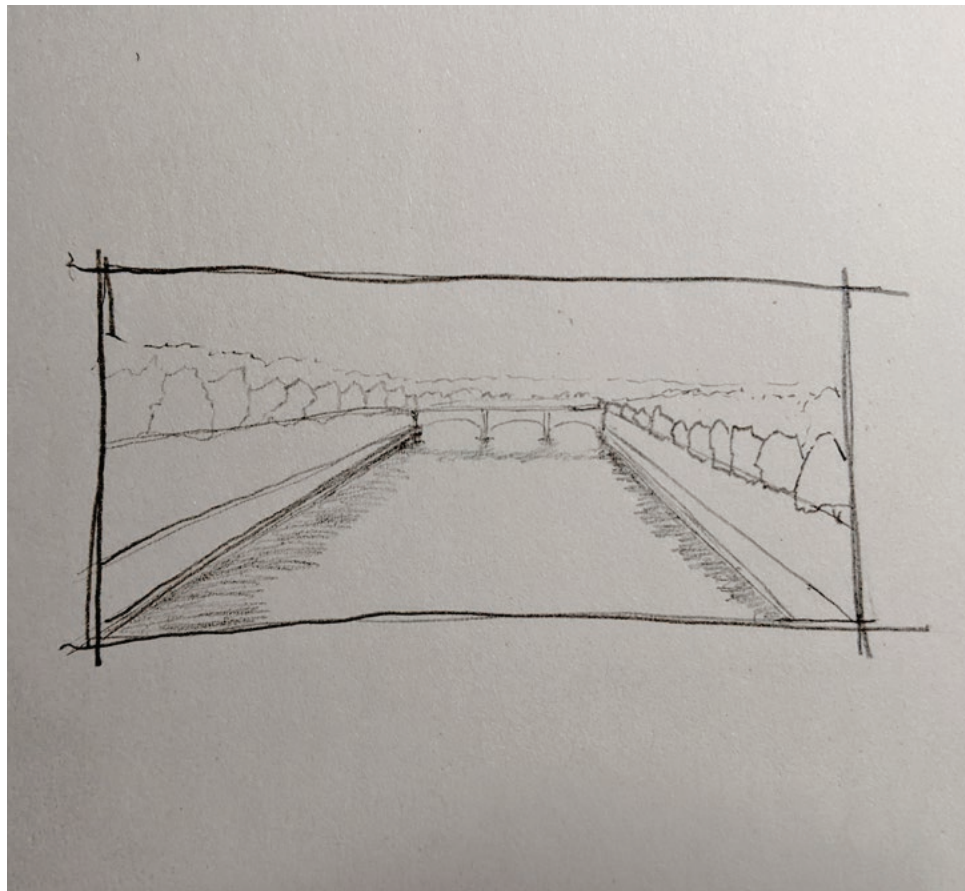
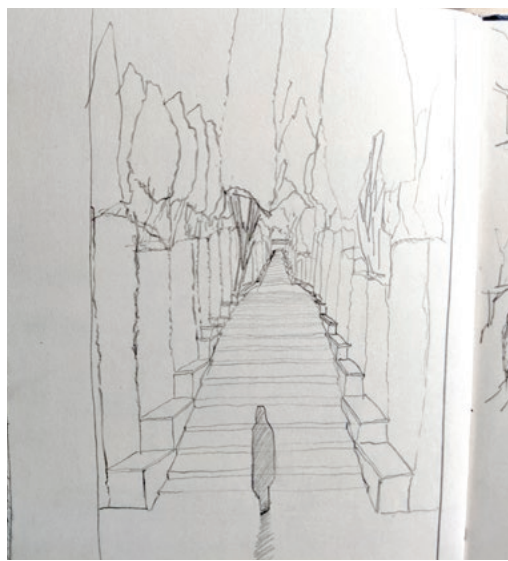

Aaron Côté

Design Portfolio
2023



Hello,

My name is Aaron Côté, and this is a selection of my works from the last few years. It is a mix of personal, professional, and academic in the areas of design, fabrication, and experimentation. I have always tried to maintain a variety in my pursuits, and I hope that this selection reflects a wide range of abilities, interests, and explorations.



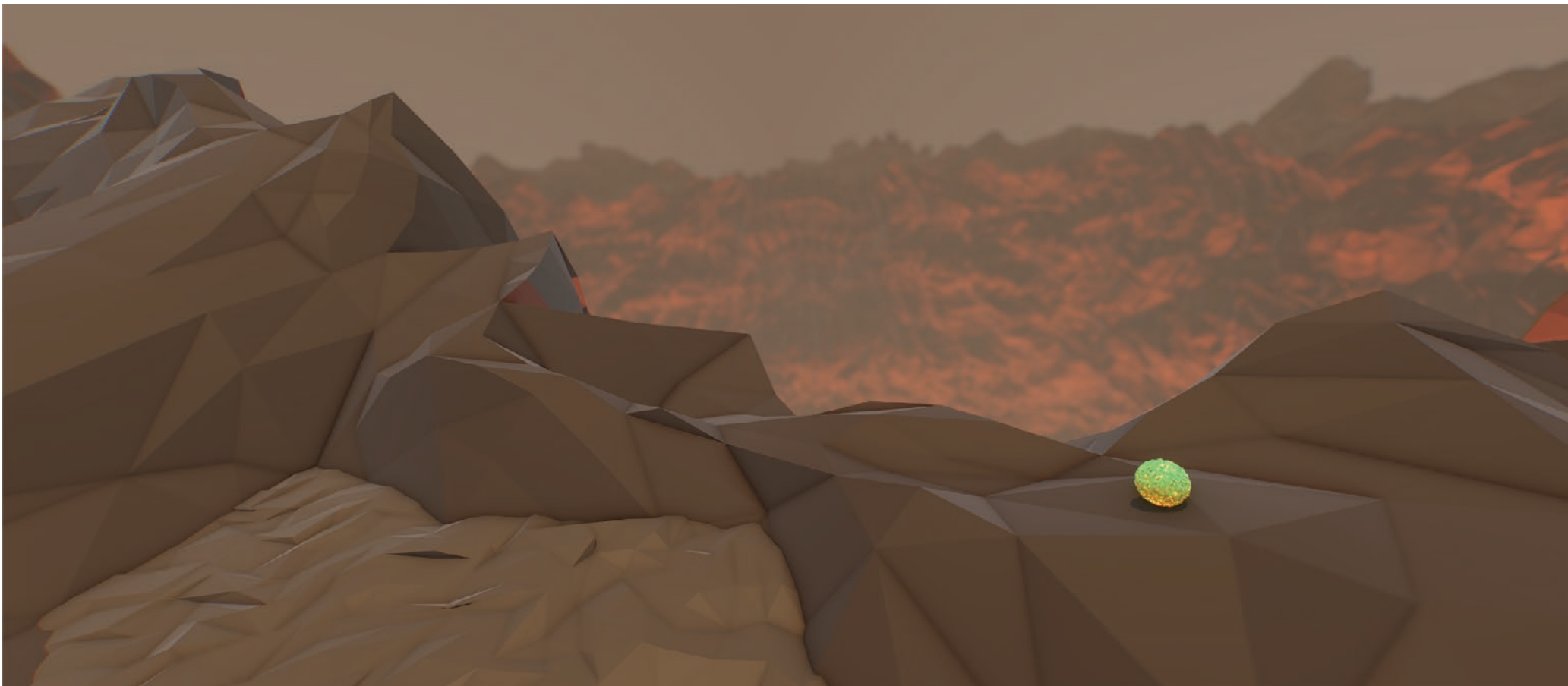
POLYBALL

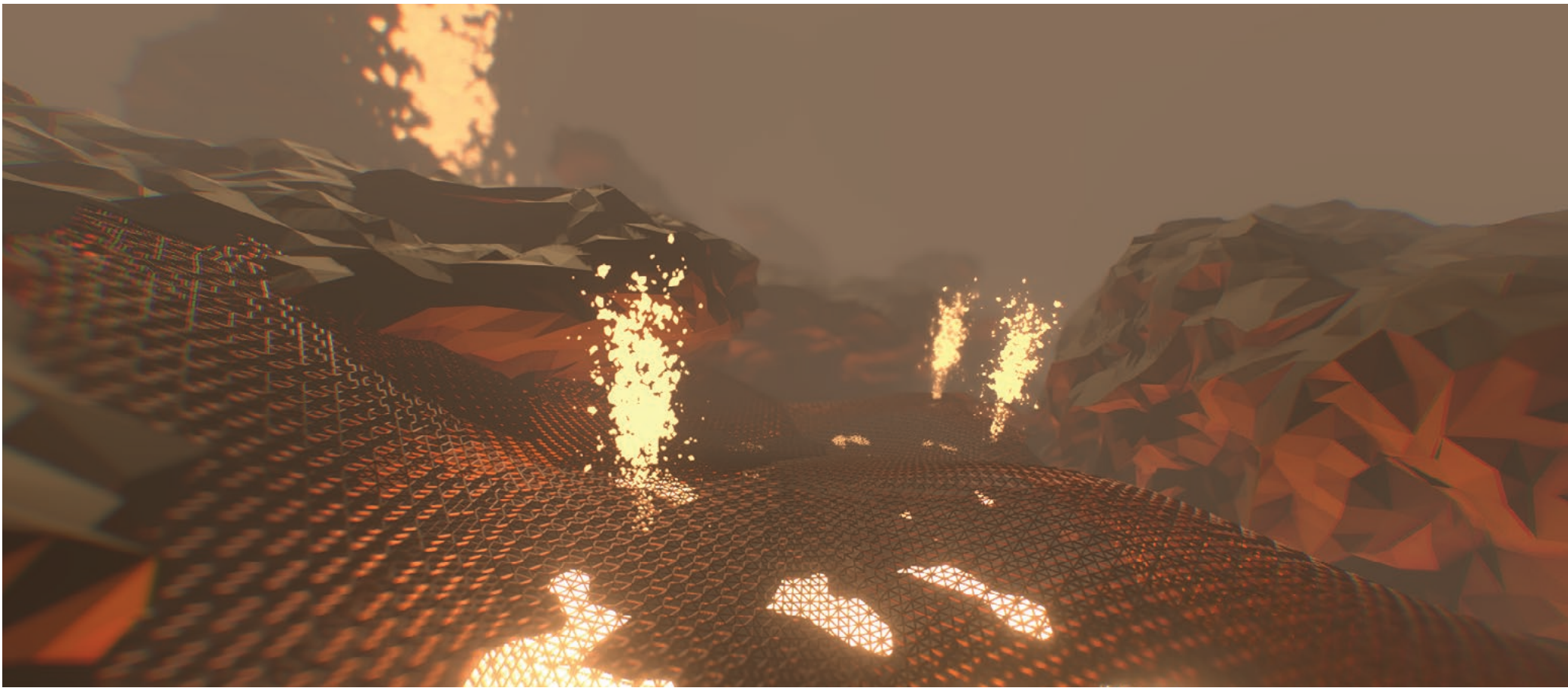
+ PC GAME DEVELOPED WITH A SMALL TEAM
+ ART, LEVEL DESIGN, 3D MODELLING, VFX, AND
CREATIVE DIRECTION



Polyball is a hybrid of racing and platforming games, wrapped in a low-poly aesthetic. It is the product of my brother and I, as well as a few friends, wanting to learn some game design skills. What started out as a messing around with tutorials turned into a multi-year experiment in design and development. Polyball was an exercise in play - we were, after all, making a game - but it was also an exercise in visual design, the pairing of real-time experience with that of pre-modeled geometry and minimal fidelity.









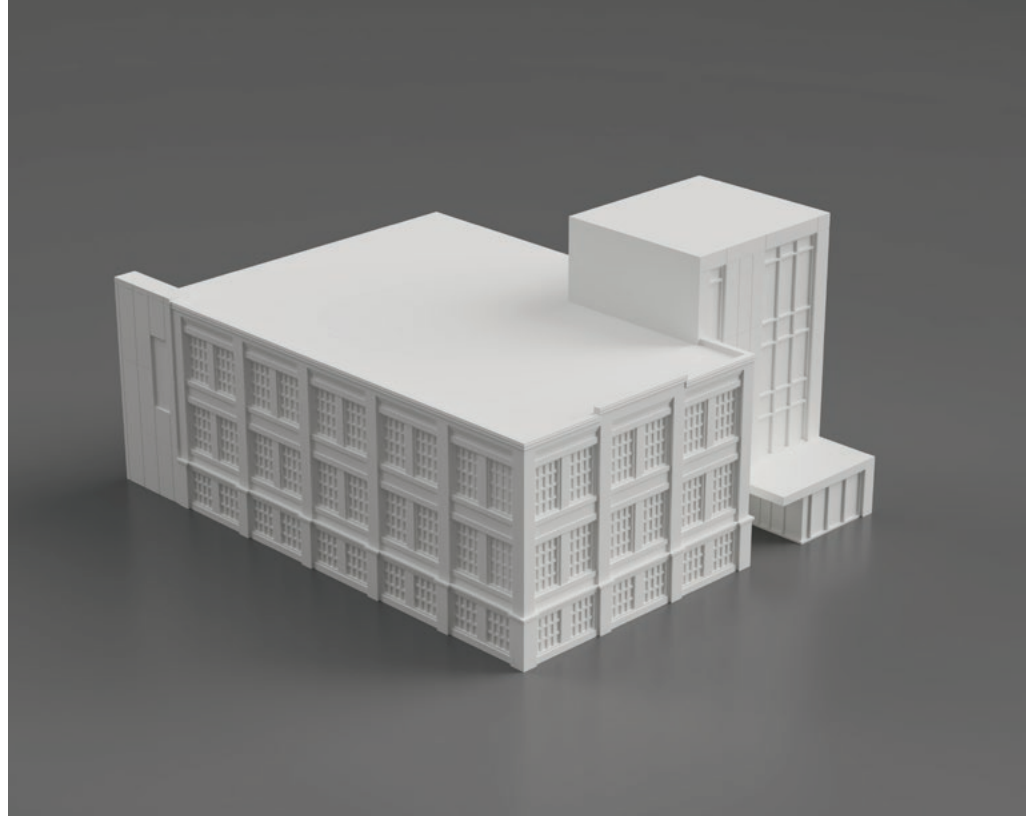


3D MODELING + RENDERING

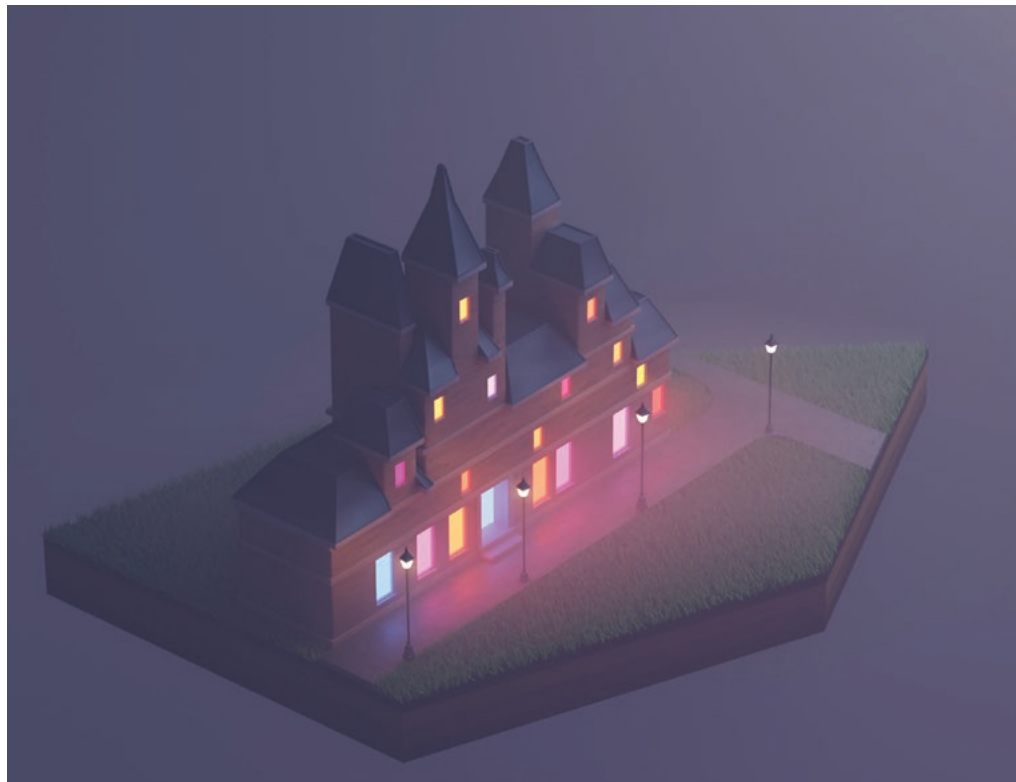
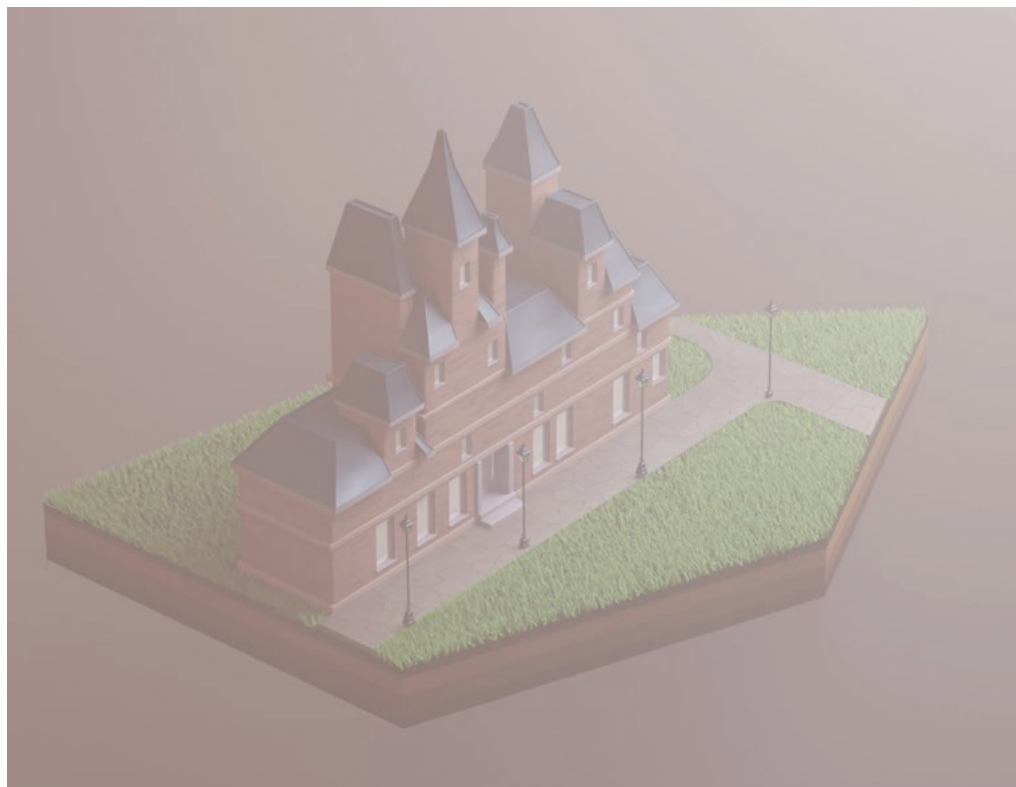
+ HARD SURFACE MODELLING OF PRODUCTS, OBJECTS, AND SPACES
+ PRODUCTION FOR REAL TIME, BAKED, AND PHYSICAL TRANSLATION



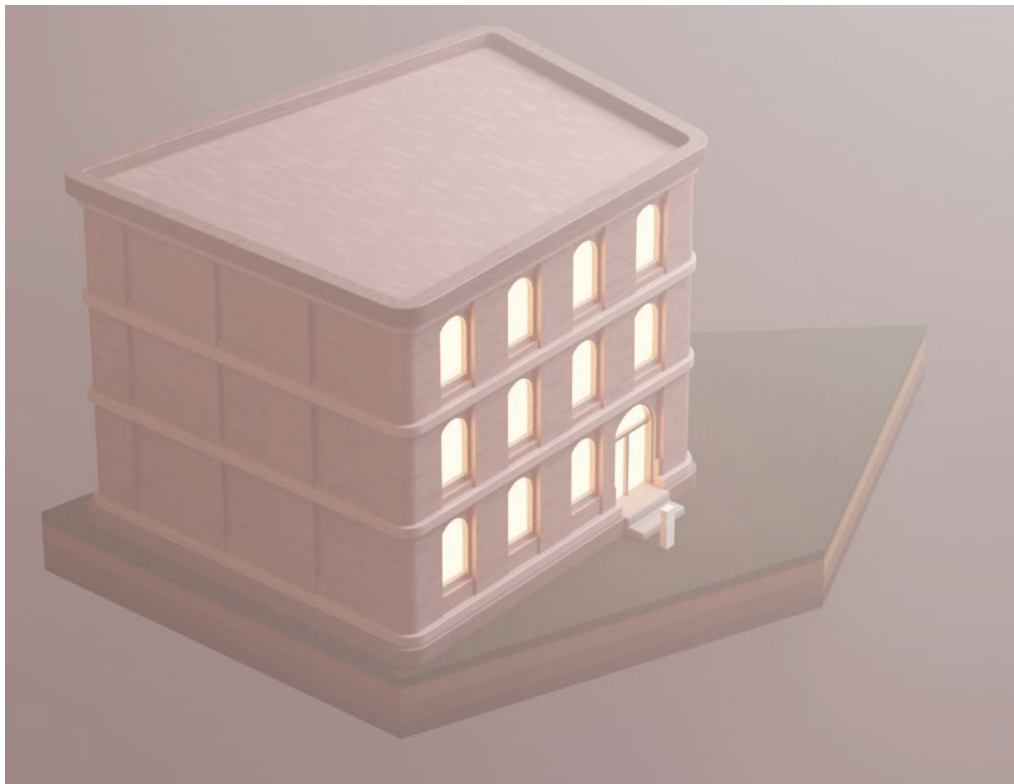
Over the years I have learned and applied 3D modelling for a variety of purposes. Some of this work has been for static rendering in archvis, realtime rendering in game design/simulation, or translation to a physical medium such as CNC machining or 3D printing.



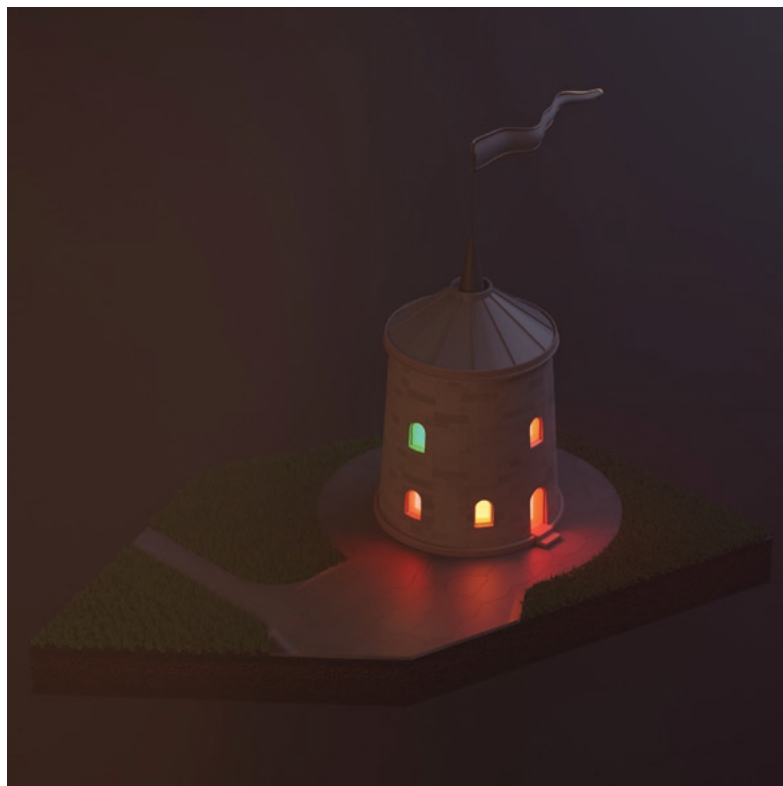
(this spread)
Models of objects to be 3D printed.

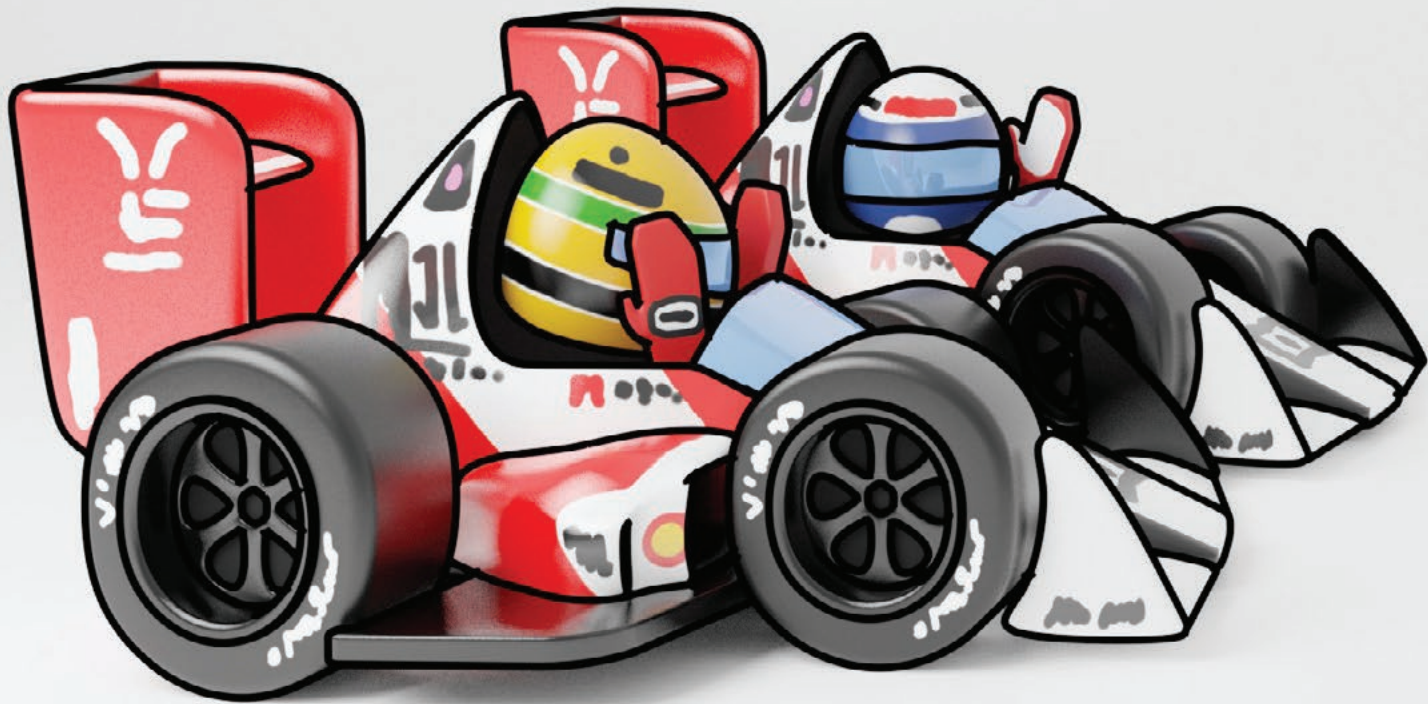


(this spread and next)
Conceptual modelling and
rendering for a personal project.



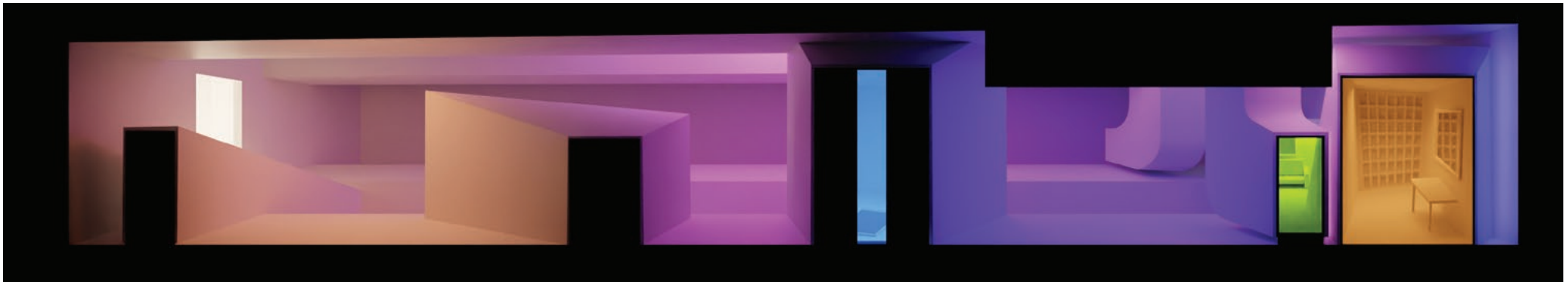
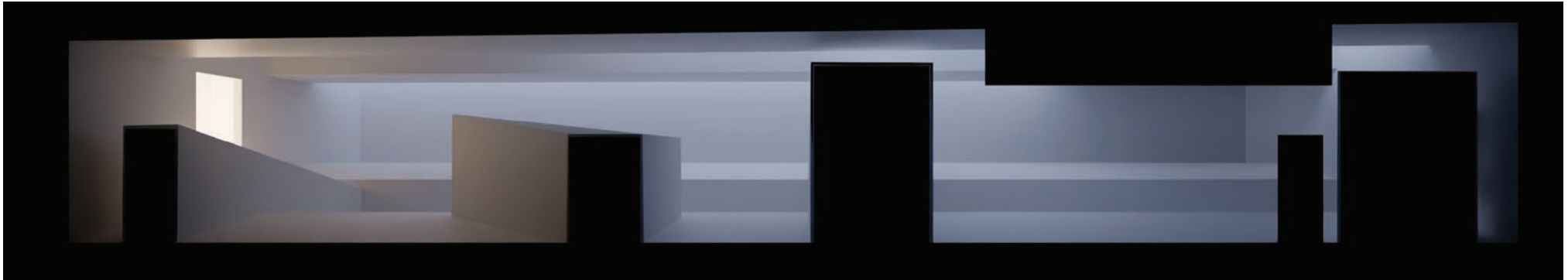






(this page)
Recreation of an artists drawing in 3D.

(facing page)
Stills from rendered animation projected onto building for the MAPP2022 Projection Art festival.



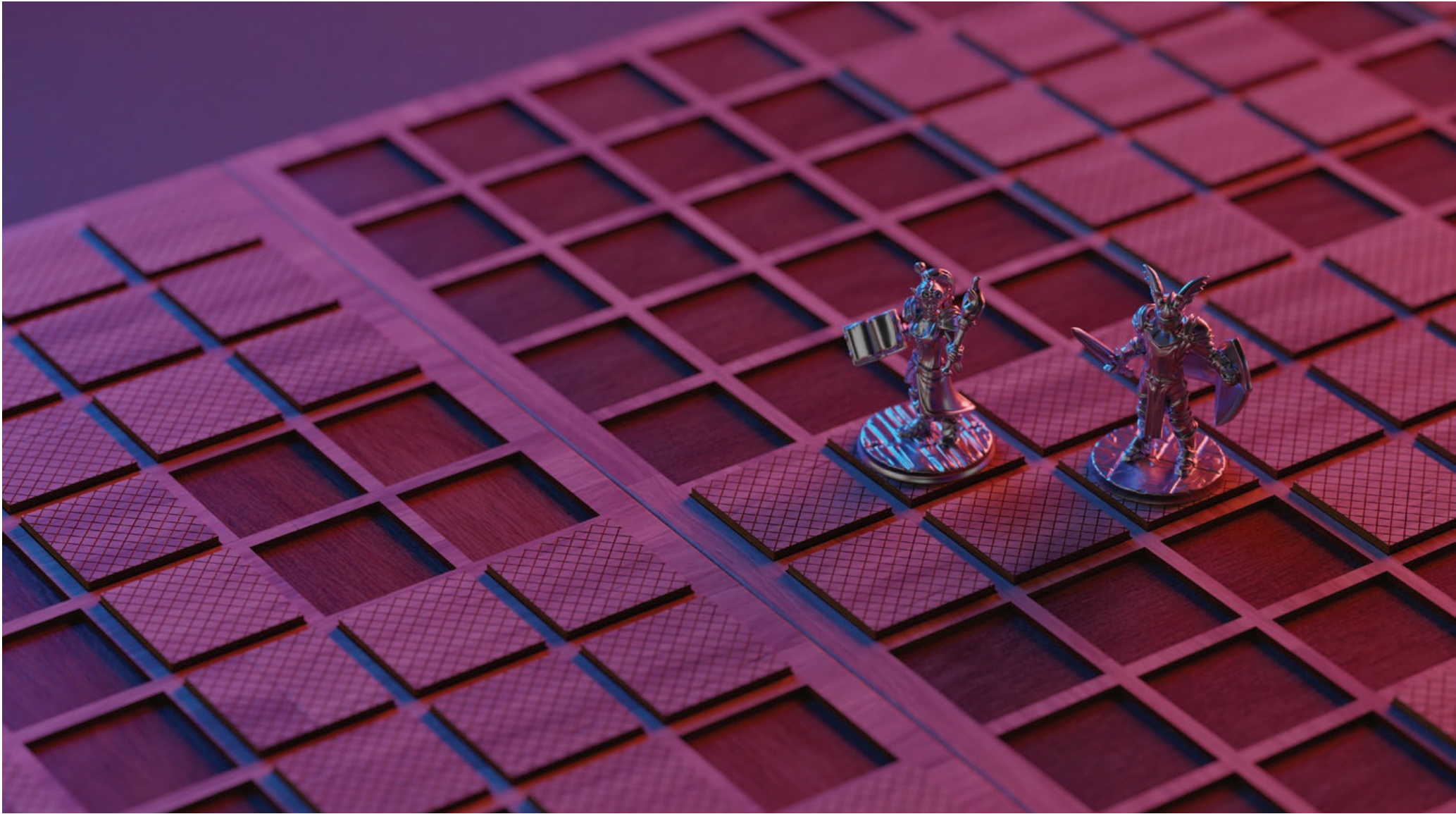


(this spread)
Conceptual modelling and rendering for a client.





(this spread)
Conceptual renderings of product to be
created (later in document)





(this spread)
Renderings of a residential project to be built.













(this spread)
Renderings of a downtown renovation project to be built.





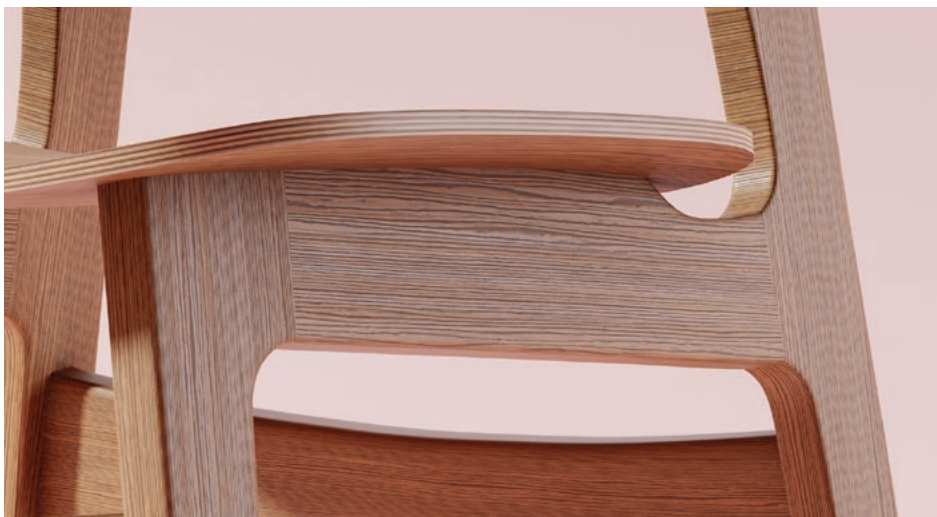
(this spread)
Renderings of a downtown renovation project to be built.



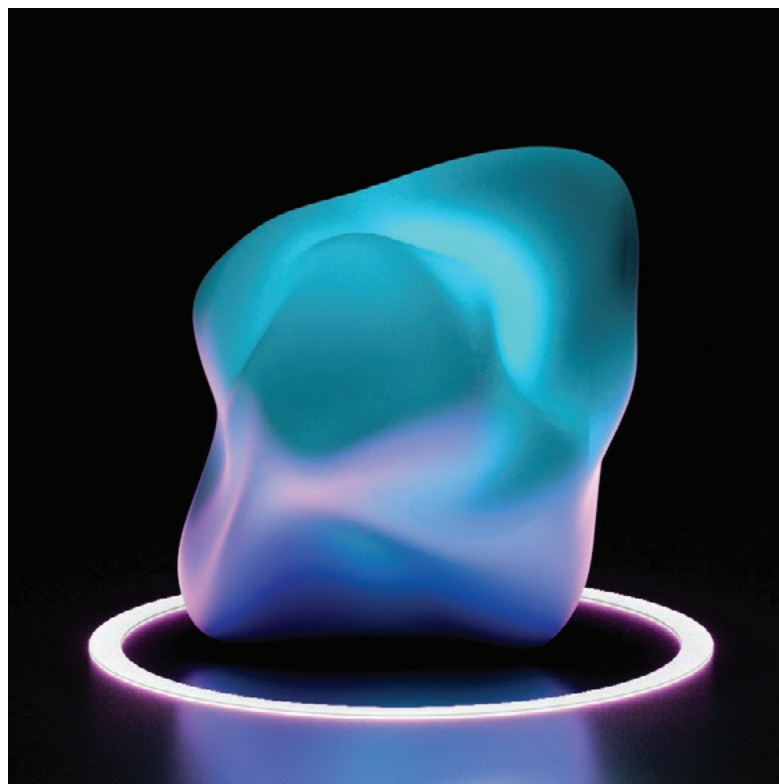
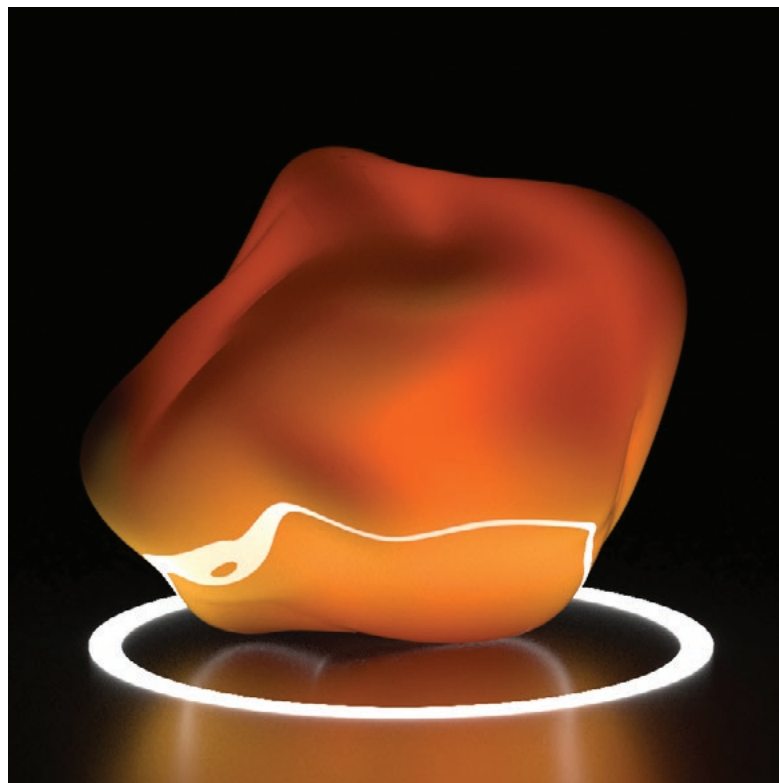






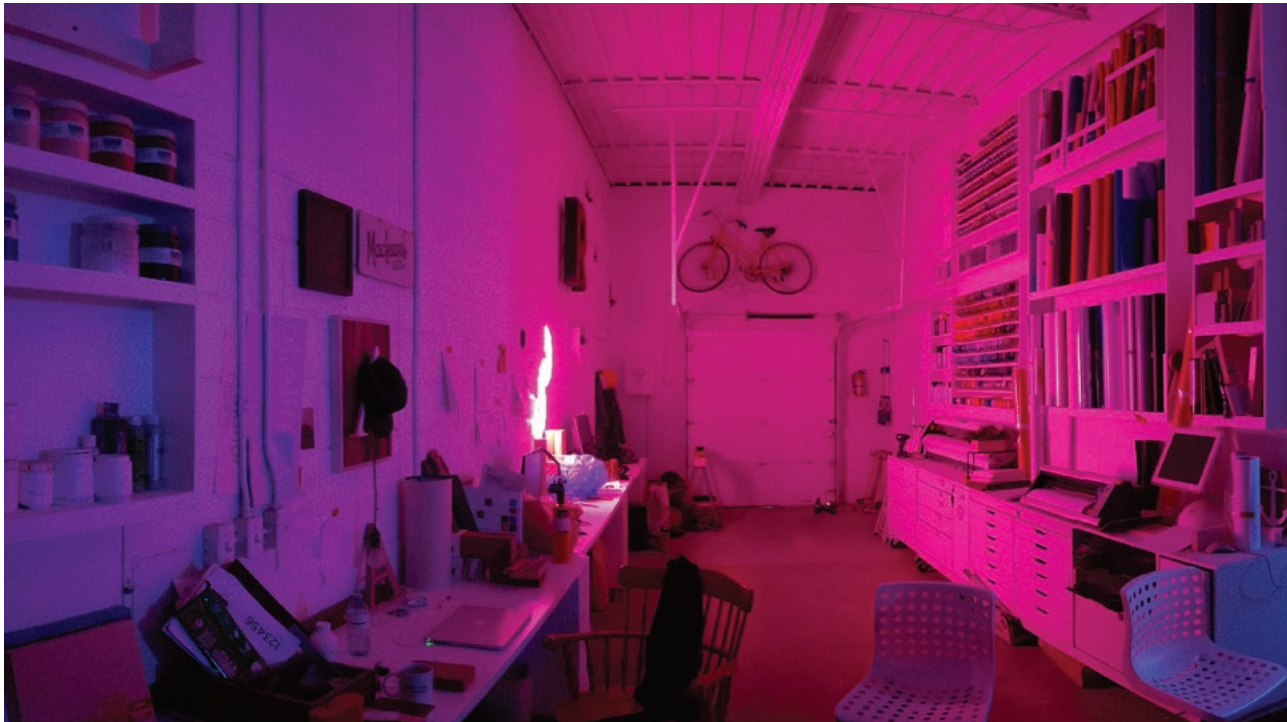






BOKO

- + DESIGN / PROTOTYPING STUDIO
 - + MULTIDISCIPLINARY WORK ACROSS VARIOUS MEDIUMS
-



I started my time at Boko as a co-op student and later worked full-time as a designer/fabricator within the studio. I would take part in contracts at every stage of the process from concept to install, as well as engage in explorations on my own and with others in the space.

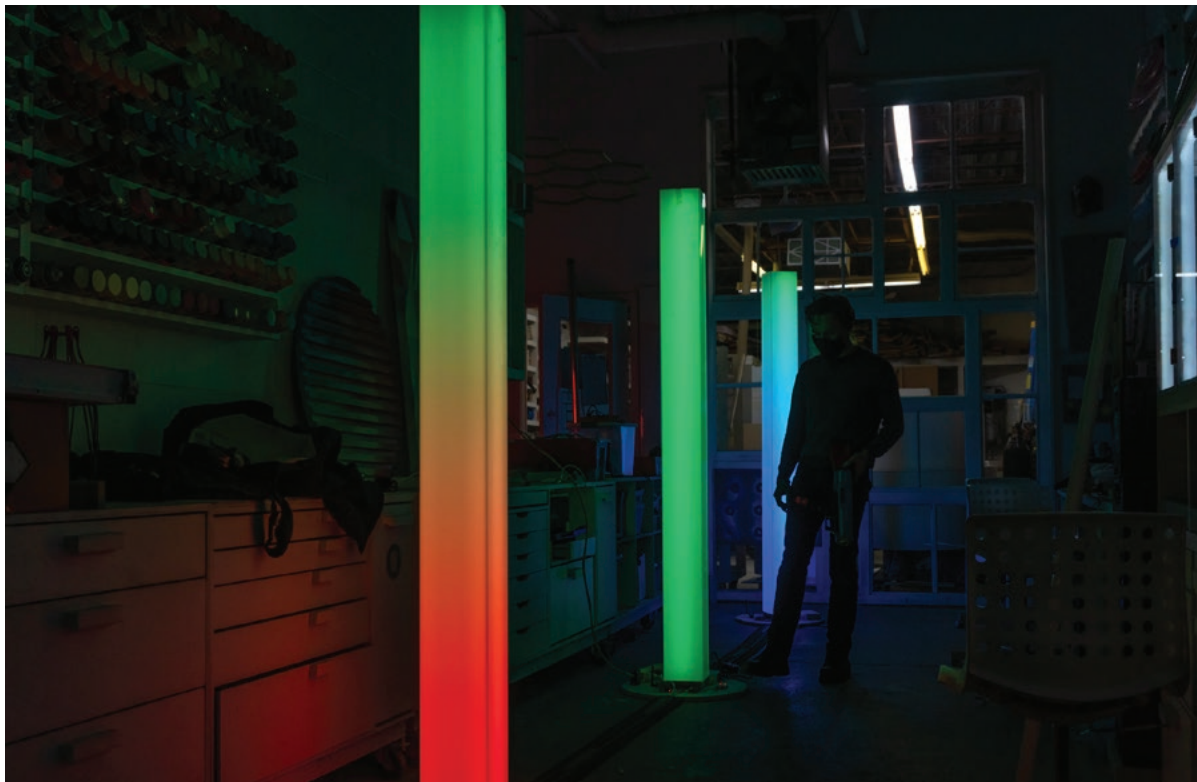
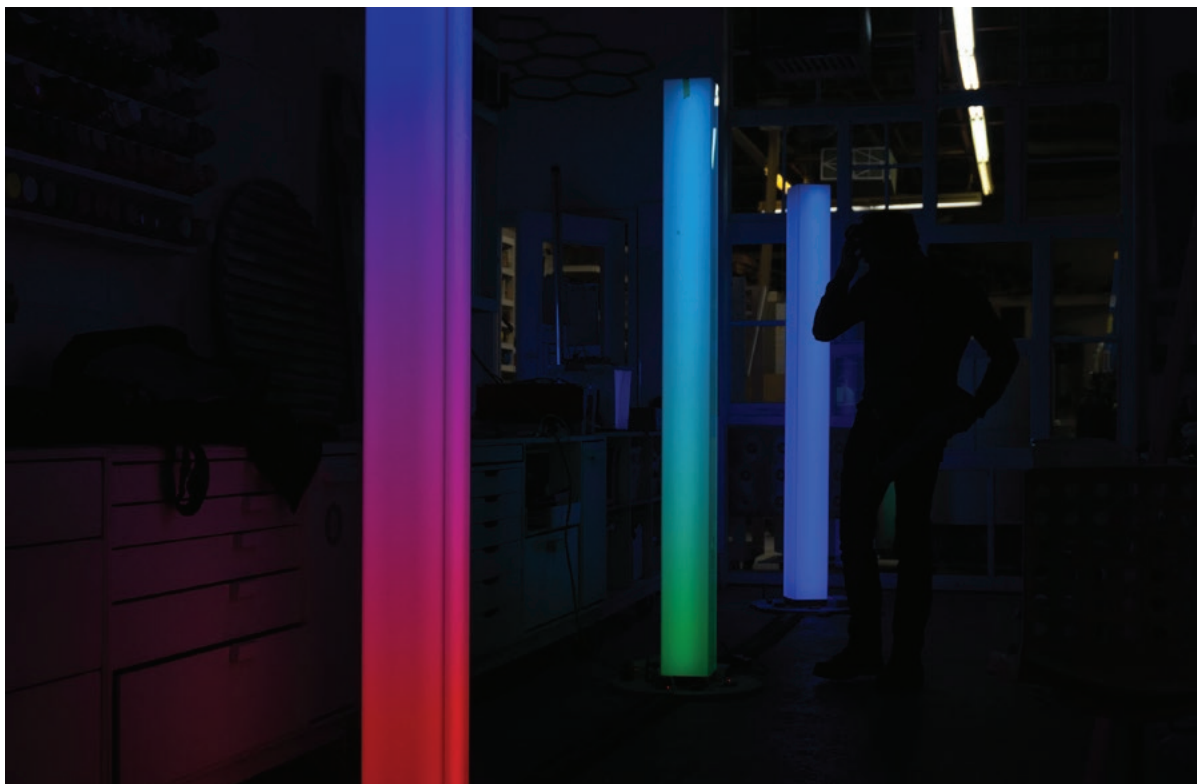
The projects Boko engage with encompass a wide range of fields. We've worked on interactive light installations, cafe outfitting, custom furniture, and digital signage. Architecture models, employee appreciation bundles, architectural renderings, and complex manufacturing for artists locally and abroad.

"Make ideas happen"

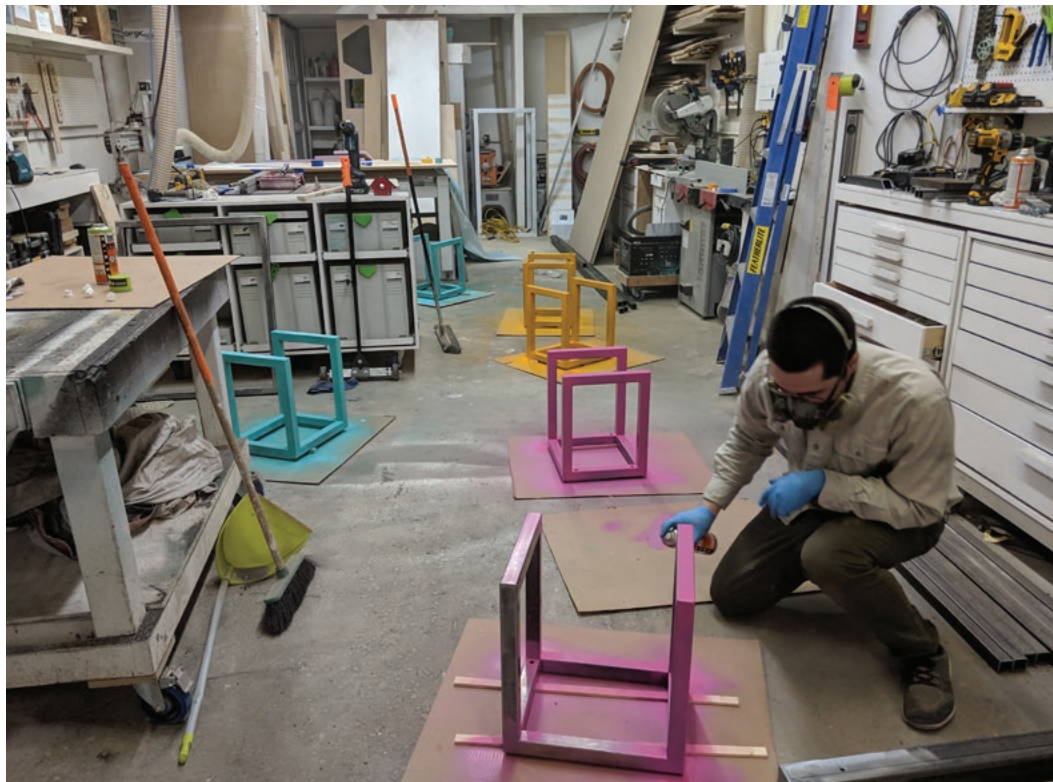




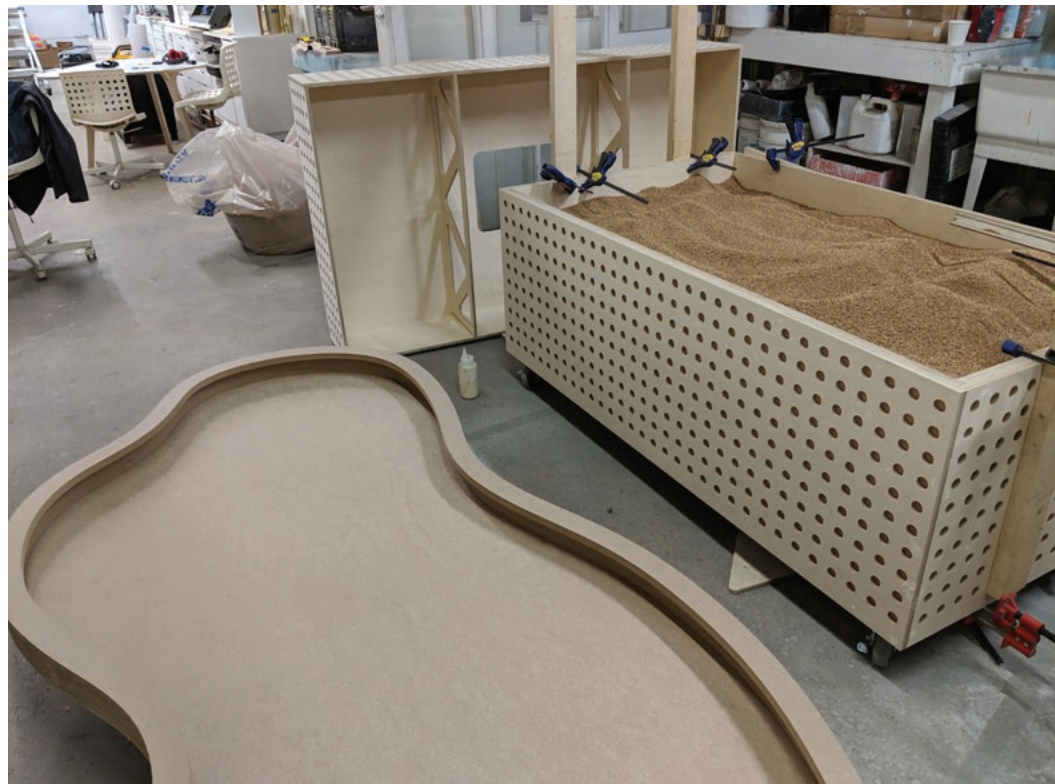


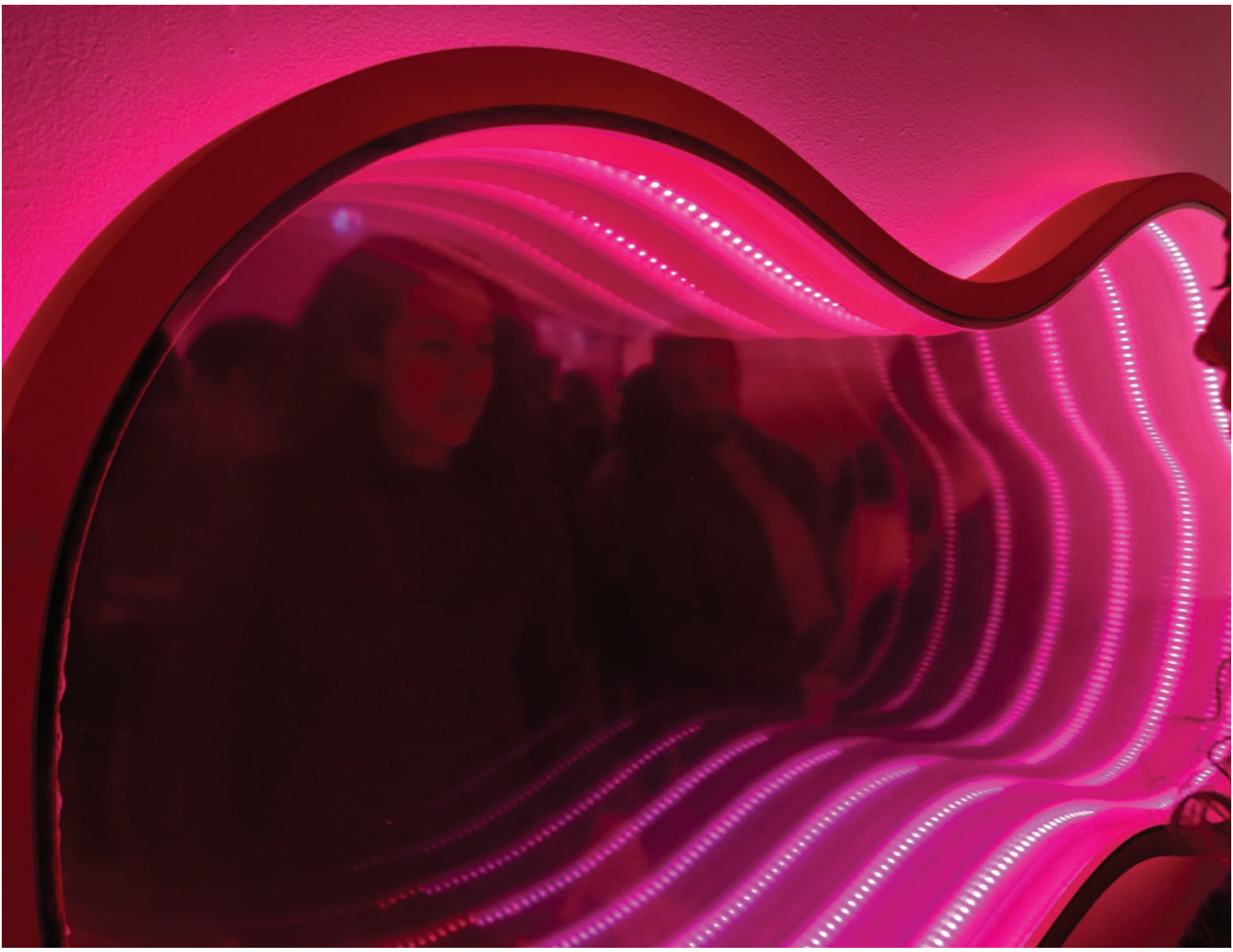


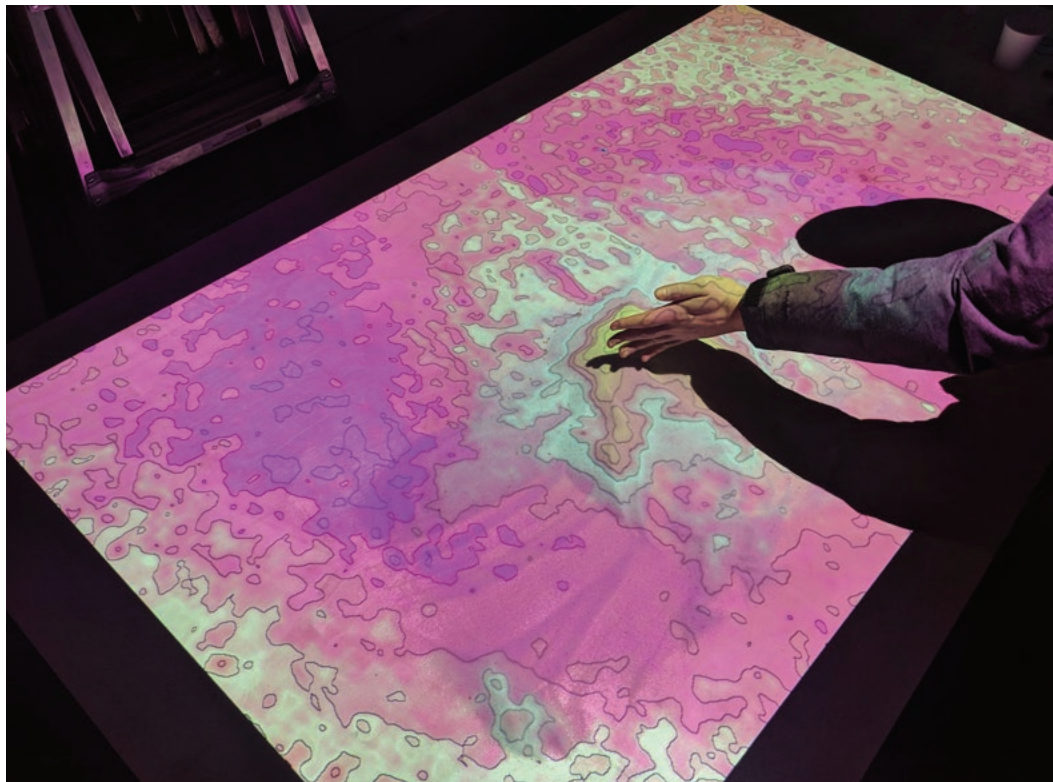
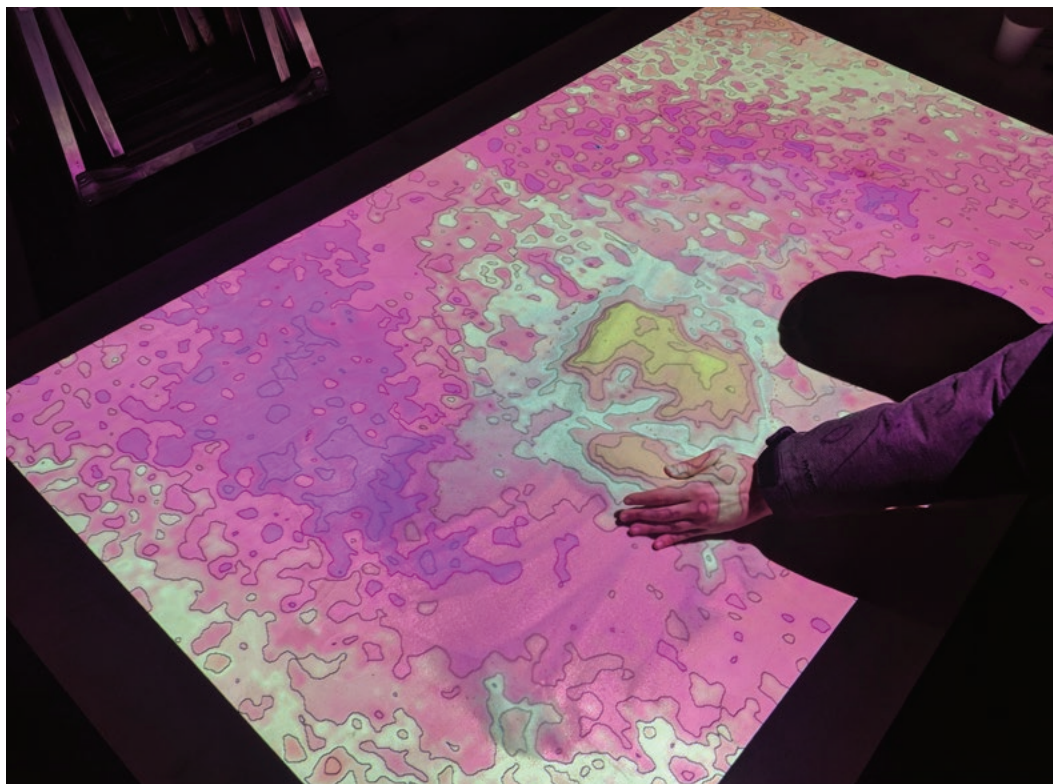






















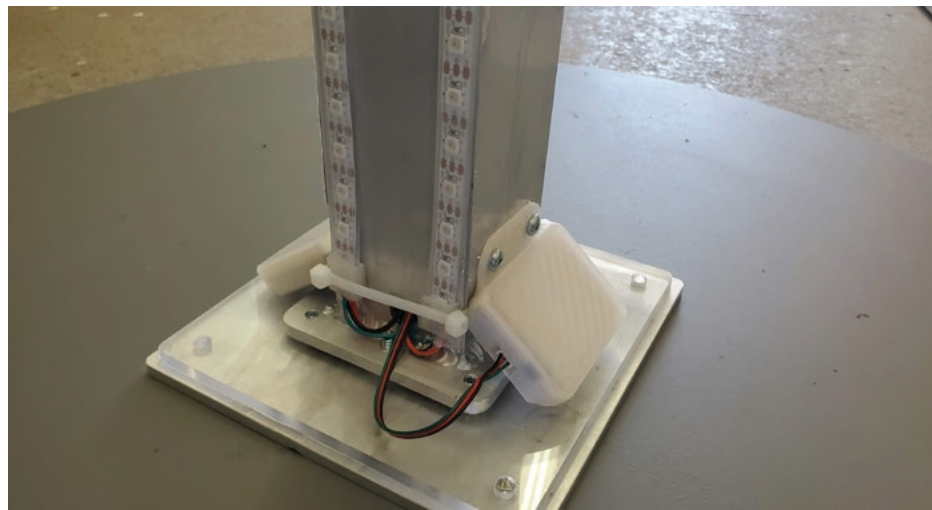
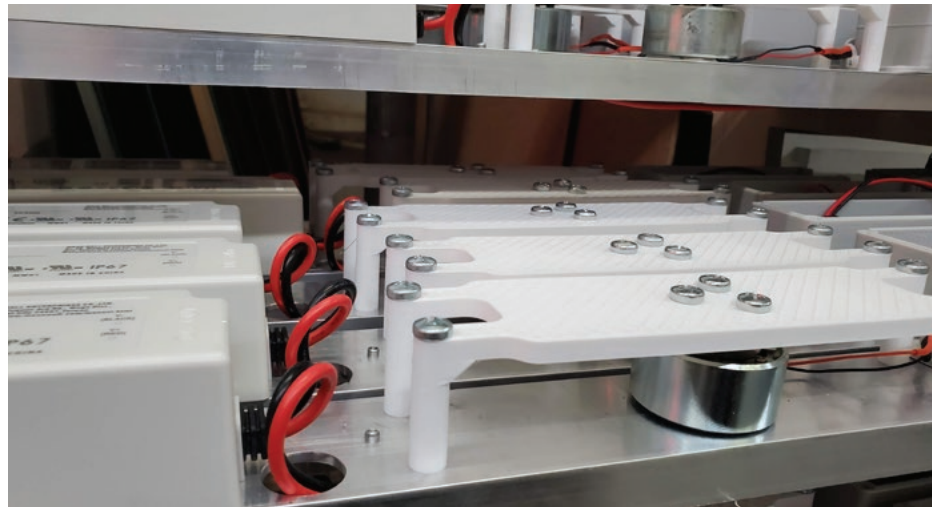
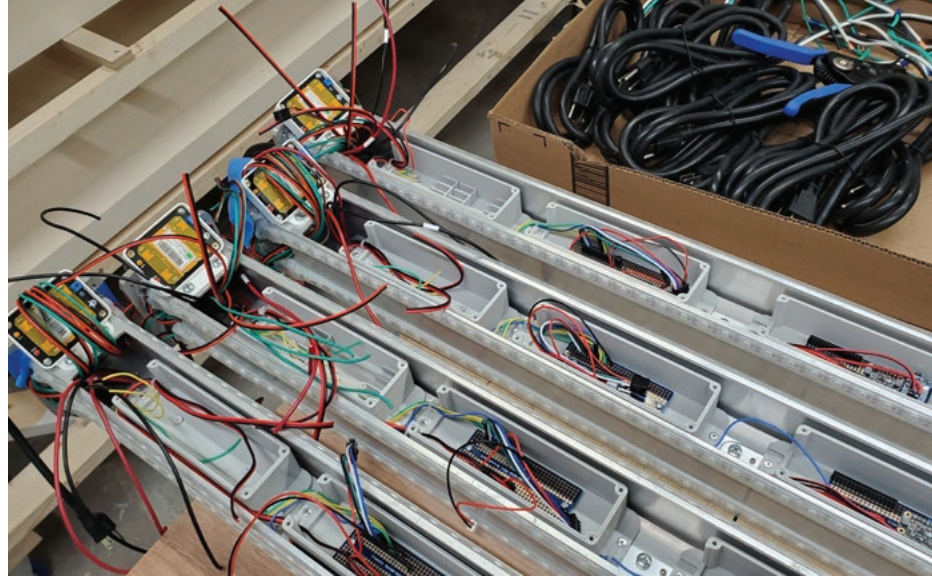
INDUSTRIAL DESIGN

- + MECHANICAL AND ELECTRICAL EXCERPTS FROM VARIOUS PROJECTS
 - + PROCESS DOCUMENTATION SHOWING WORKFLOW AND PROTOTYPES
-

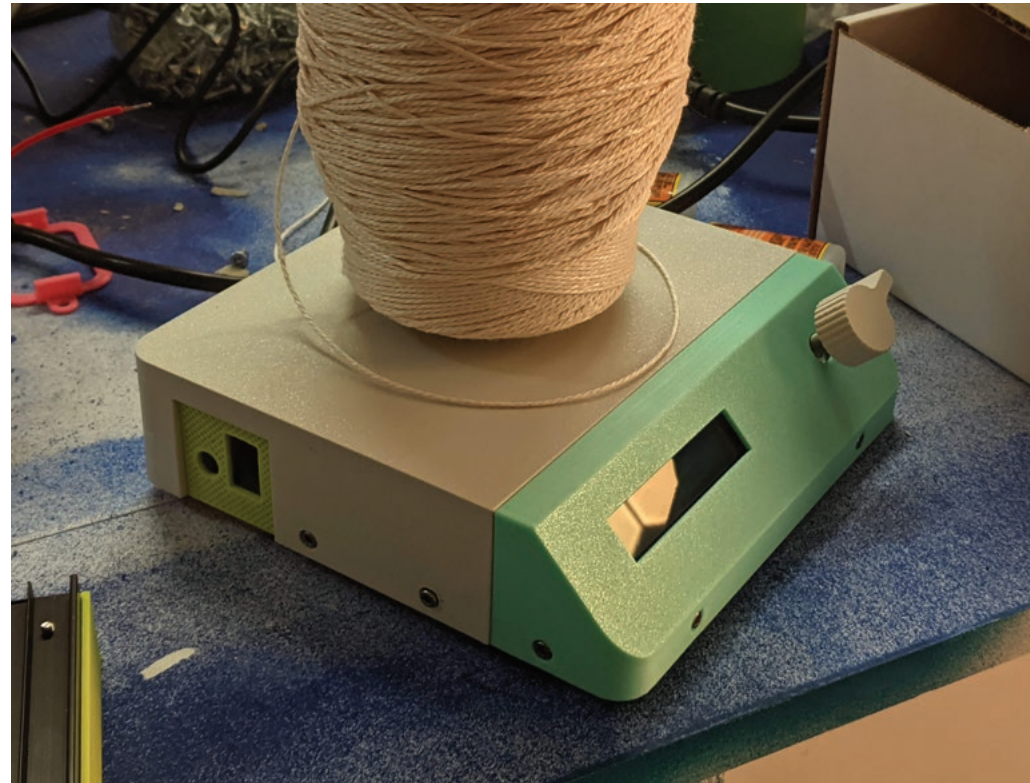
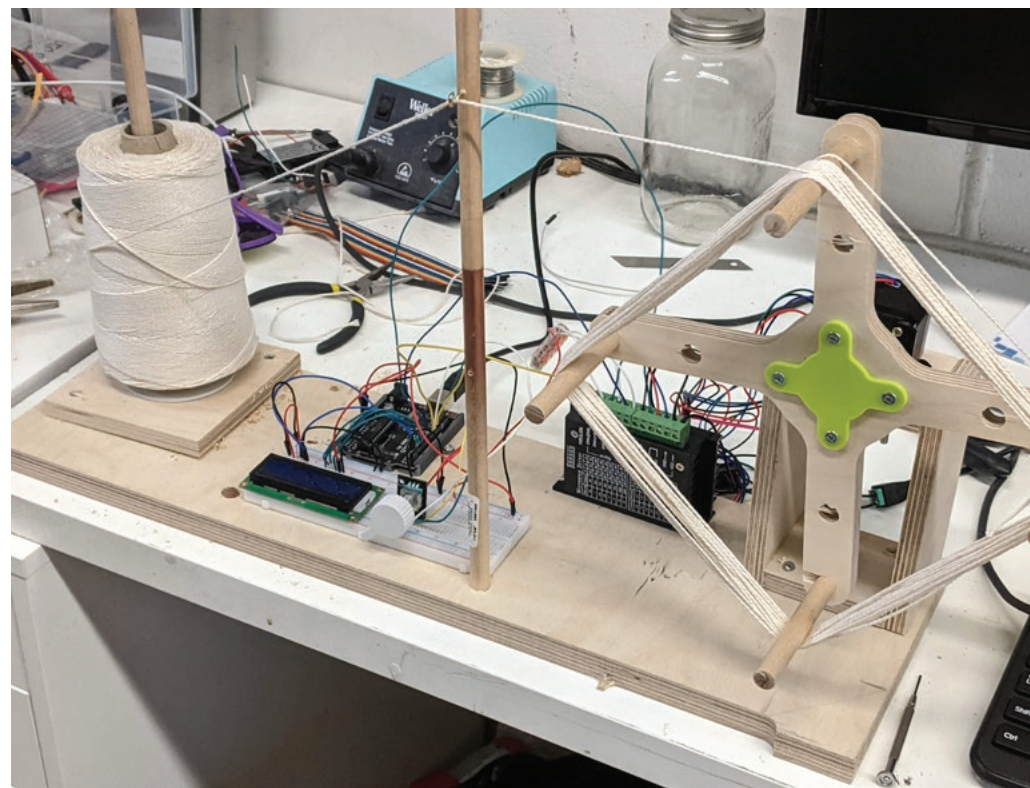
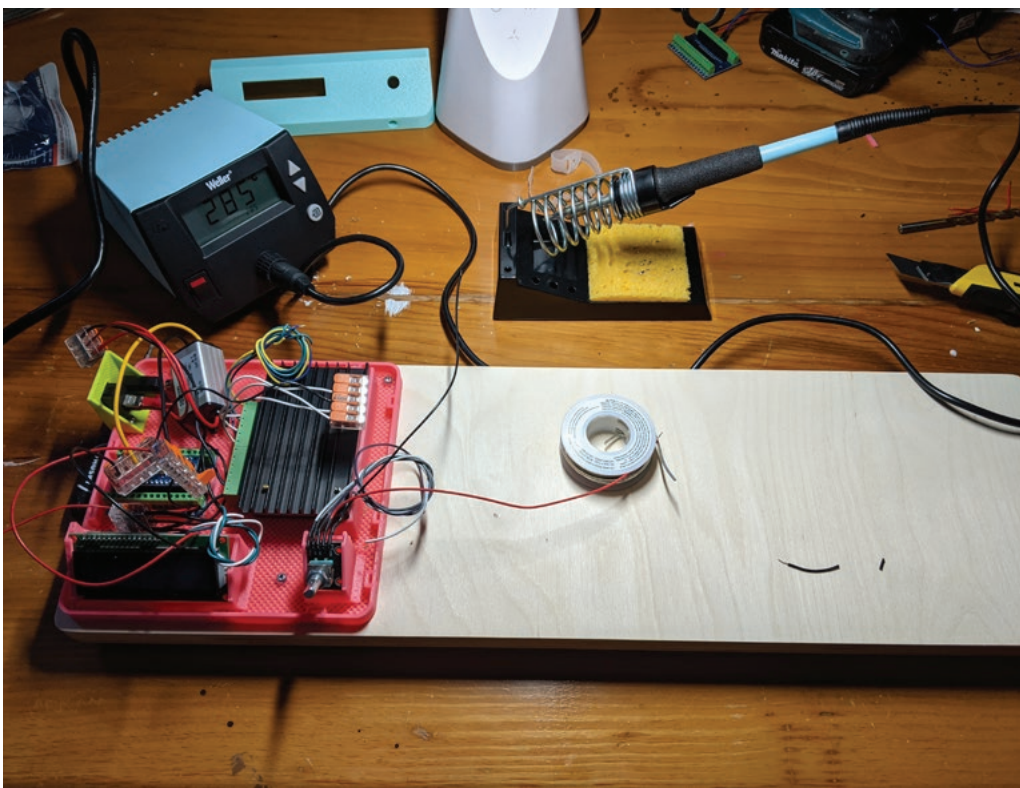


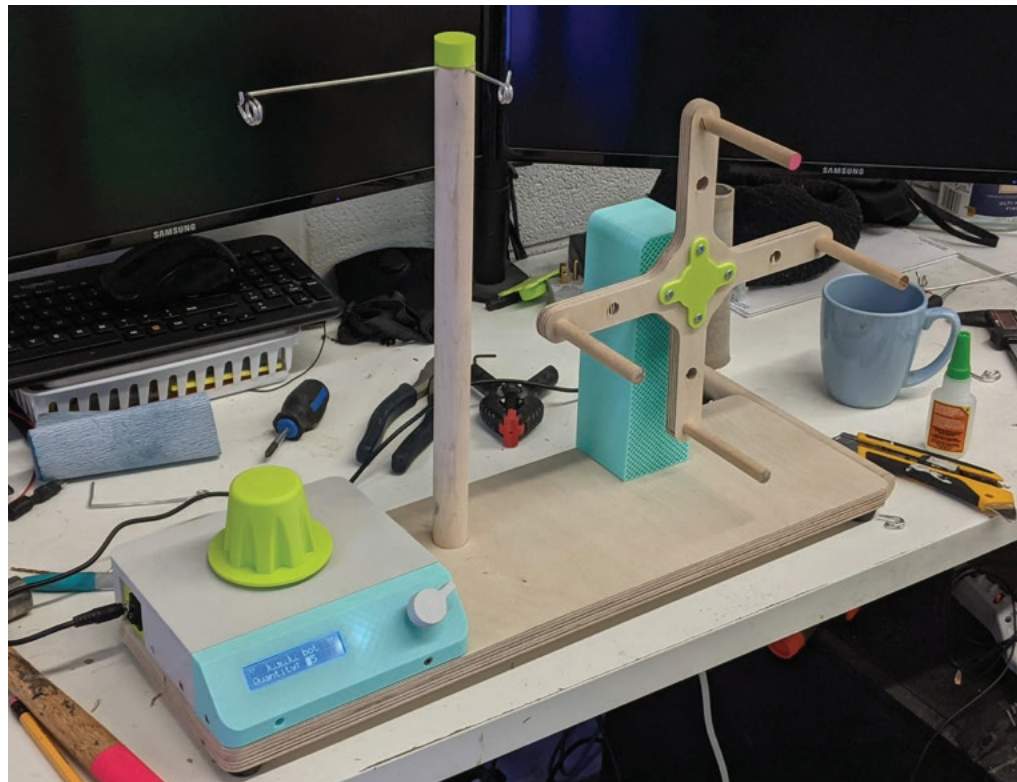
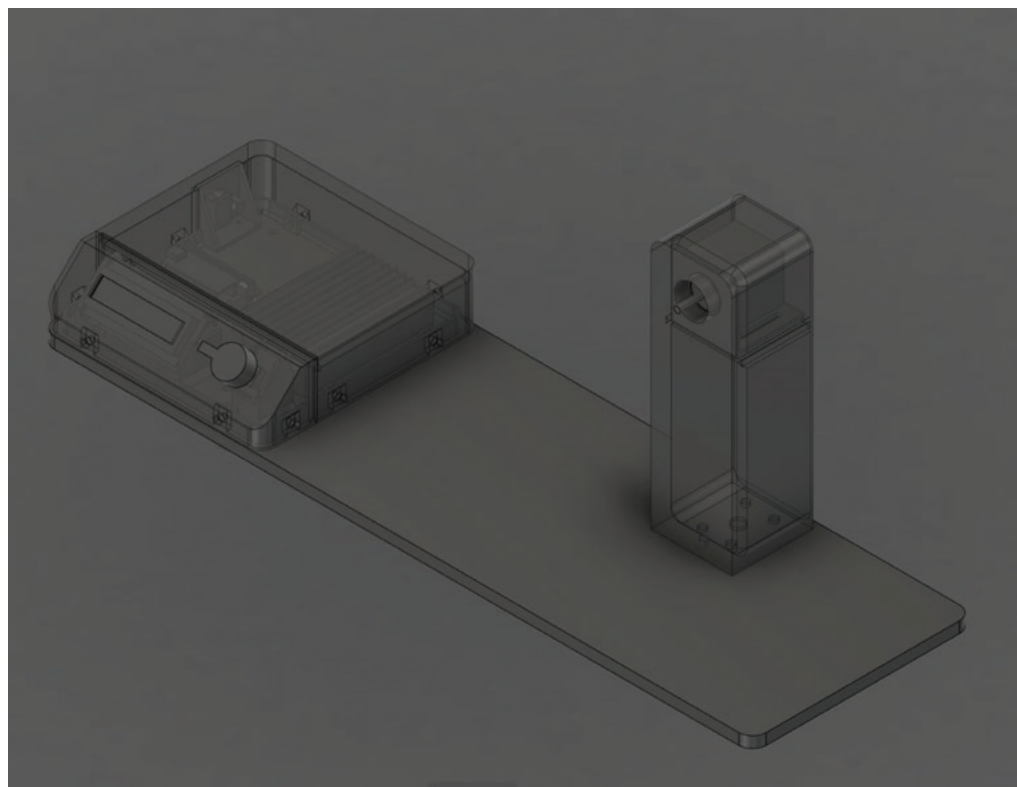
A lot of the work I've been involved with has been experimental in that we learned as we went to a certain degree. This learning was built on previous experience and theoretical frameworks, but the problems we were solving and the methods for doing so were often new to myself and others on the team.

Some of these projects are independent, and some are from my time at Boko, but overall they represent design challenges where myself and others were challenged to think and work outside of our immediate experience.



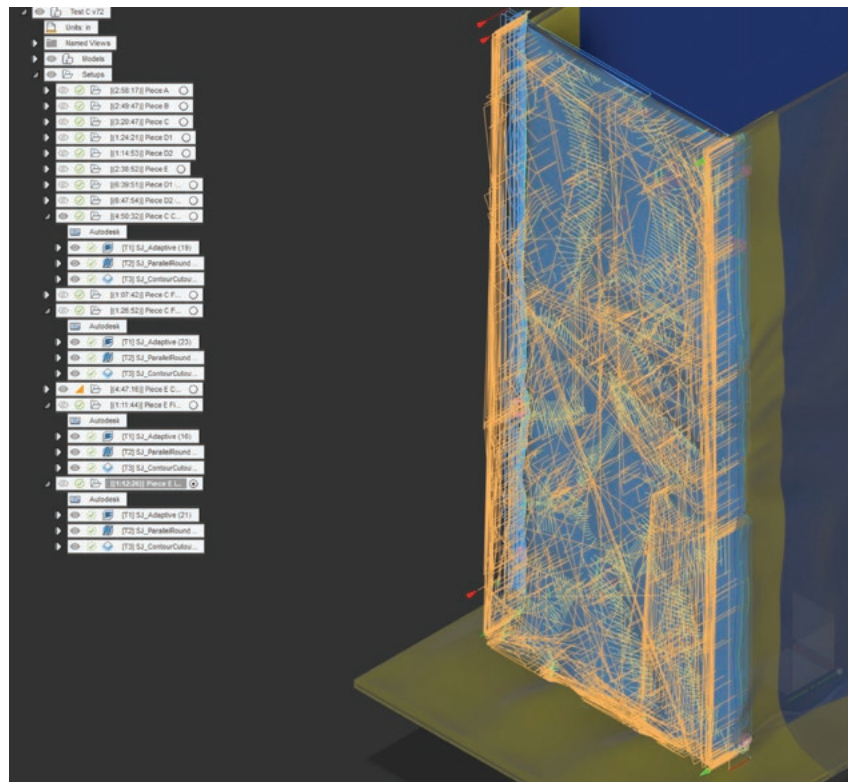
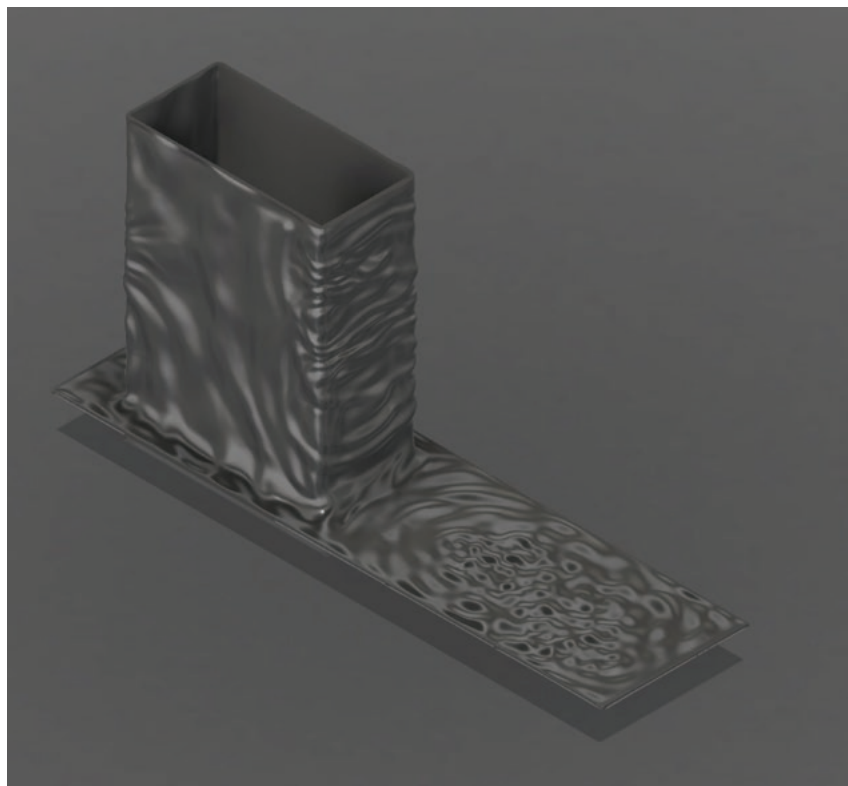
(current page)
Electrical and structural details from FUSE project (light-up sticks in previous section), showing motion sensors, exterior transducer diaphragms, and internal wiring boxes. The formal components were all designed and fabricated in-house.





(current spread)

One-off small machine designed, built, and programmed in-house for a small embroidery company in Toronto. The machine accepts commercial spools of yarn and rotationally measures out a number of segments that can be cut in bulk. The pegs can be moved to change the length of each segment.



(current spread)

CAD/CAM (left) work on a large-scale installation (right) for LASG in the San Jose Airport. My responsibility was material optimization given the budget, remodelling of sculpted meshes, CAD/CAM design, toolpathing, and CNC operation.

The structure is hollow and comprised of 8' tall HDF panels that are machined to a minimum thickness of 1/4". These panels undulate, and had to be seamed at each edge to create a self-supporting sculptural column.



INDEPENDENT DESIGN

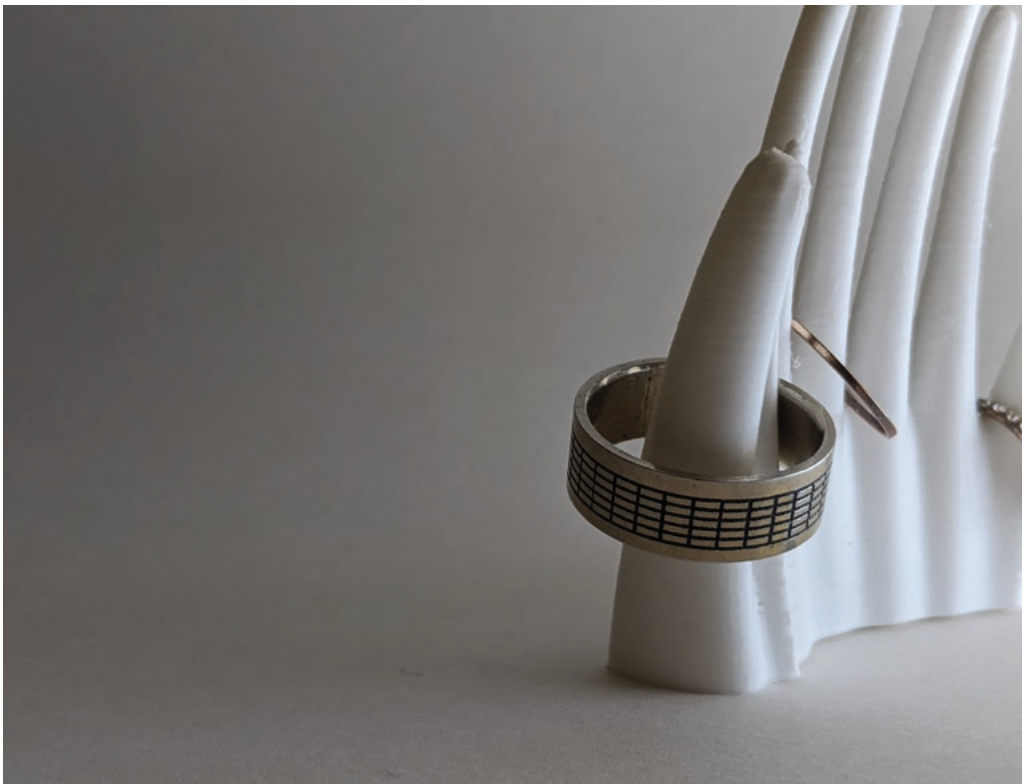
+ INDUSTRIAL DESIGN, MATERIAL EXPLORATION, AND FURNITURE
+ EXPERIMENTS IN FABRICATION TECHNIQUES, FORM, AND NECESSITY



A large portion of my experience has been gained through independent or collaborative design outside of any professional or academic capacity. I try to experiment with different fabrication techniques, forms, and use cases. Some of these were motivated by form, and found function, while others were born out of necessity.

(current and facing page)

Various formal explorations designed in Blender and then 3D printed.





(current page)

Portable RGB light bar design and fabricated for a local vintage clothing store. Colours are controlled with dials for red, green, and blue.



(current page)
Steel barbell weights designed and fabricated for a local gym supply company. The weights are 3/4" steel that have been laser cut and galvanized. Each weight is calibrated to around 2% using variances in the handle sizing.

HOW

)HSAS18001

important to make the
rotting process with
a gap of 0.2-0.4 mm from
ethylene substrate.



(current and facing page)

A series of three topographic maps created using GIS Data and CNC milled out of solid walnut. The pieces were then clear coated and hung on the wall using french cleats.



(current page)
Flat pack desk made using
steel angle and white
washed pine boards.



(current page)
Modular tileset for tabletop
games. Created with a laser
cutter and baltic birch plywood.





(current and facing page)
Tool-less flat pack shelving unit
fabricated entirely on a CNC
machine with slot together joints and
support mounts.

FABRICATION

- + SHOWCASE OF MORE DETAILED FABRICATED ELEMENTS
- + PROCESSES INCLUDE CNC MACHINING, 3D PRINTING, AND WELDING

Over the years I have worked on a wide range of projects that required a diverse set of skills, some of which were unknown to me at the start of a project. I enjoy doing work that involves learning new techniques and processes, and require me to think outside the realm of traditional making. This section showcases a few projects that focus on fabrication rather than design.

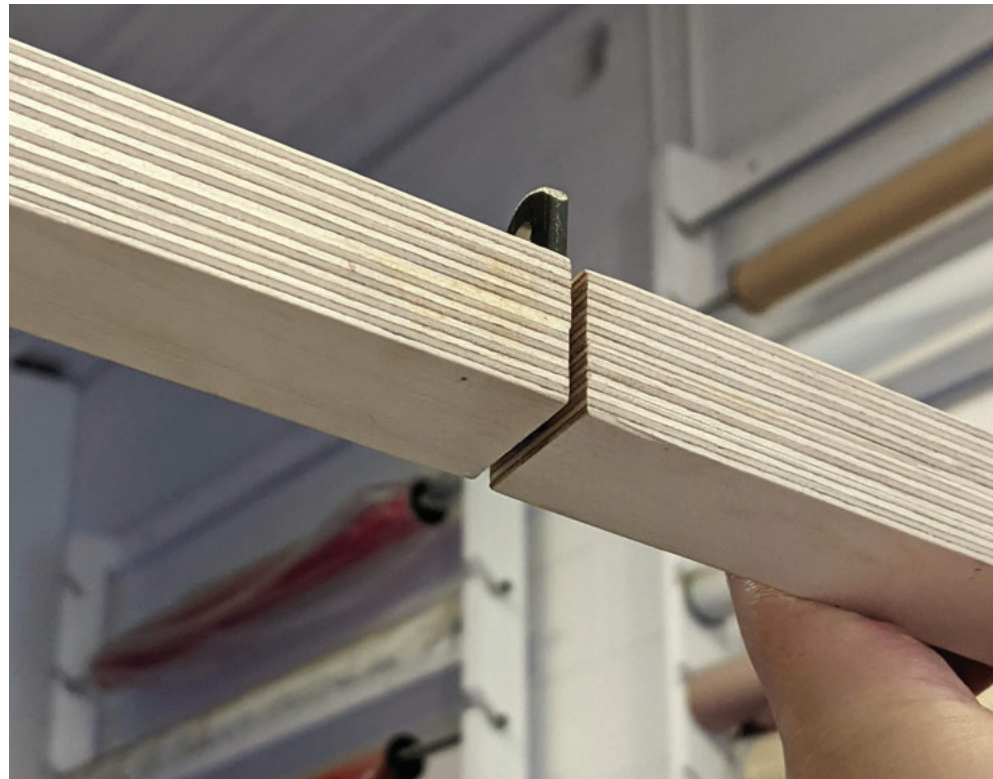


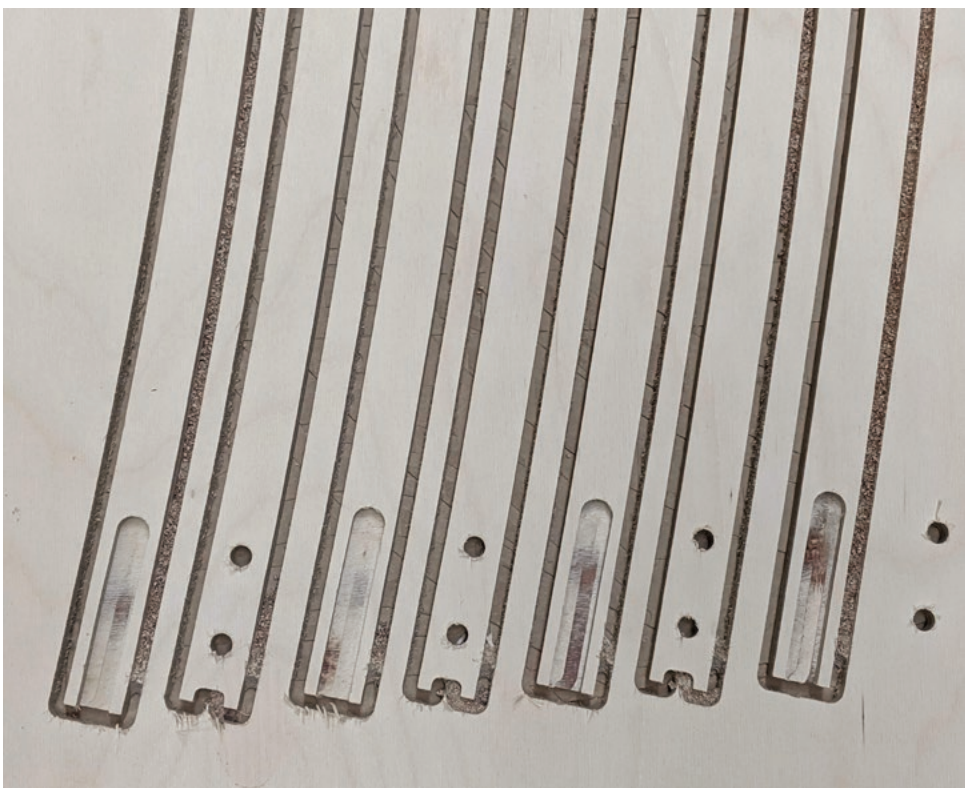
(current and facing page)

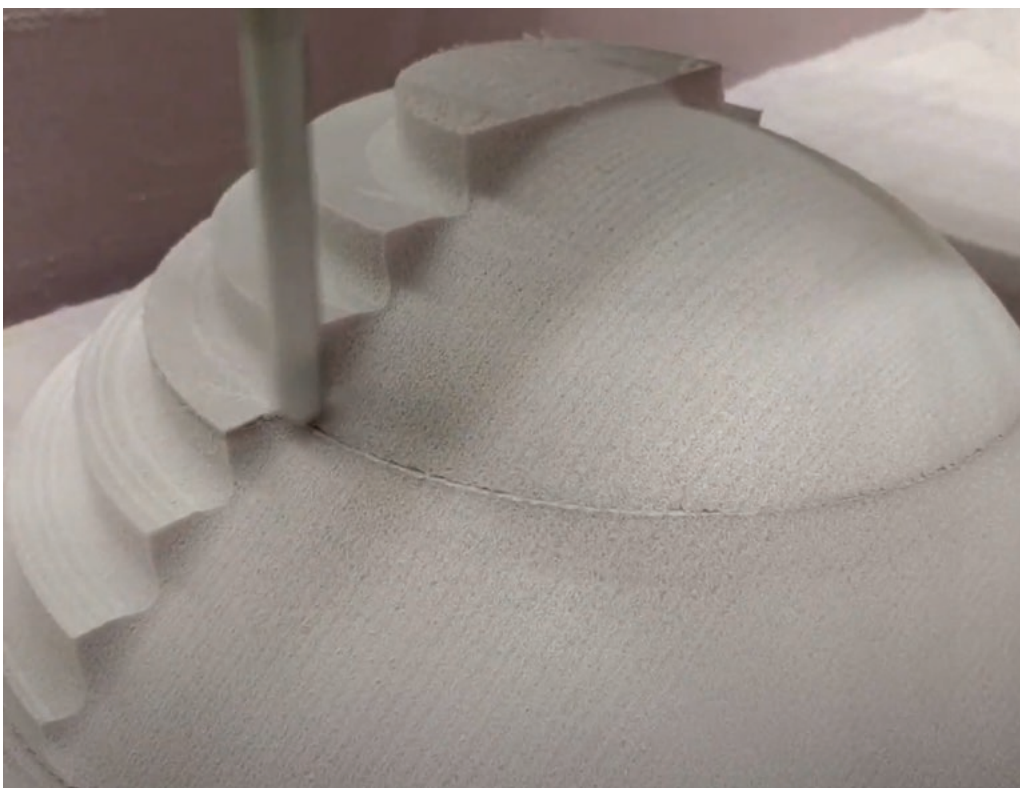
A few images of the fabrication process for a client who needed to hang a large art quilt inside of a heritage gallery. Far-right is the finished quilt, at 8 meters in length.

The arcs were cut on the CNC machine from 1/2" baltic birch and then laminated to form two layers. A small slot was left in the end of the bottom layer, and two holes cut through the same spot on the top layer. A steel hanging element was designed and welded together with two tapped holes to correspond with the holes in the top layer. This element was then inserted into the slot, bolts inserted into the tapped holes, and aircraft cable swaged into a small tab that was welded to the top.

This system of tab-and-slot hangers allows the arc to be packed into a car (each segment ended up about 6 feet / 2 meters long) and set up with ease into a variety of different gallery situations. The design can be expanded, rotated, flipped, and segmented, as each piece is generic and symmetrical.









(current spread)

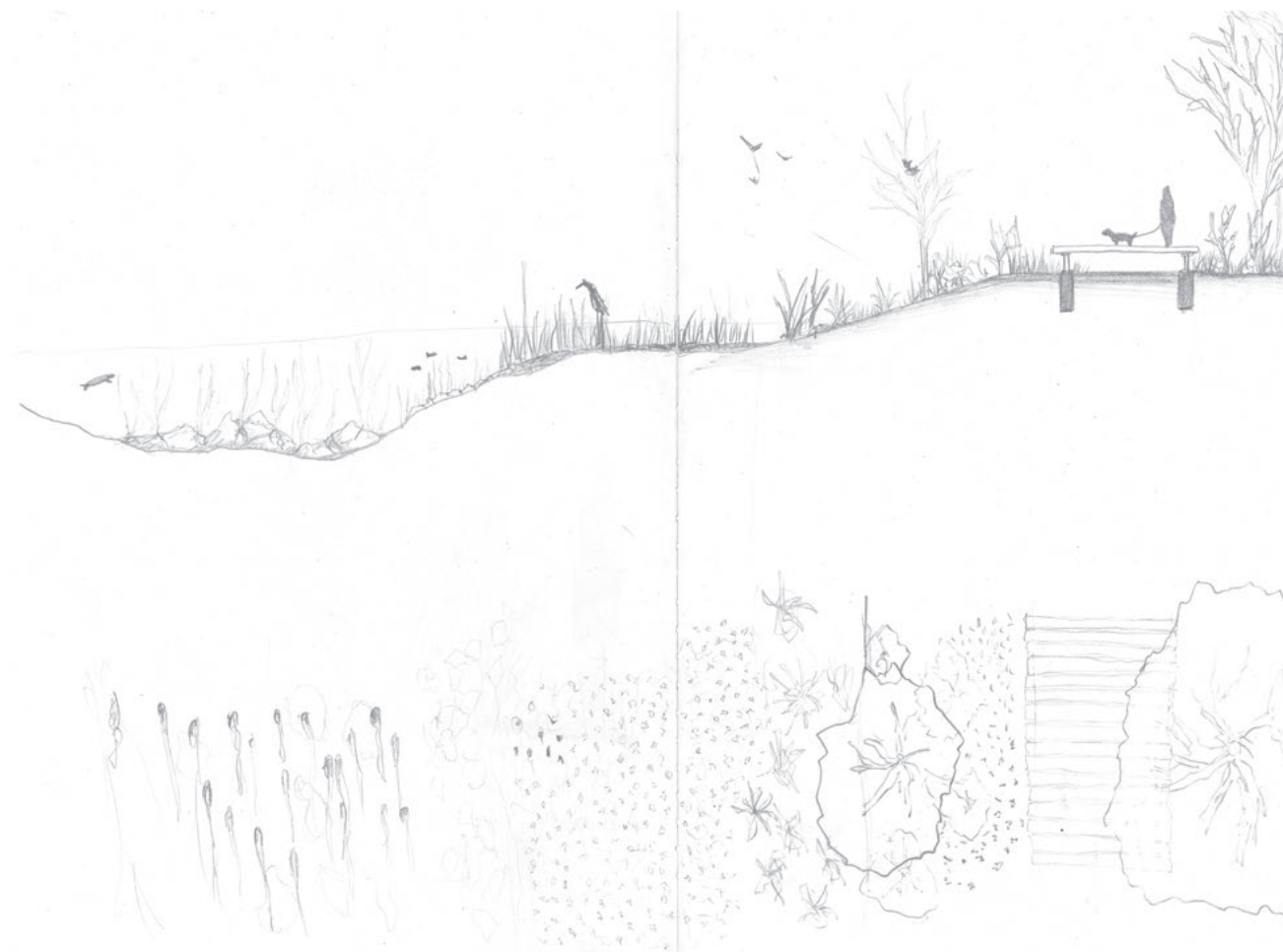
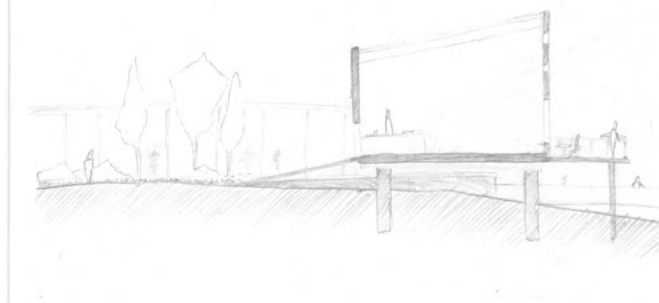
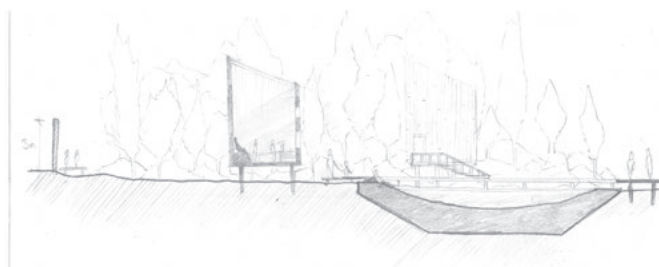
Fabricating a fiberglass prototype for a high-speed hyperloop rail car. This process involved CNC machining a pink foam formwork, smoothing and sealing it, then using that as a base for fiberglass casting which was then finished and painted. This assembly was shipped to a SpaceX testing ground. This project was completed while on co-op at Boko Design.

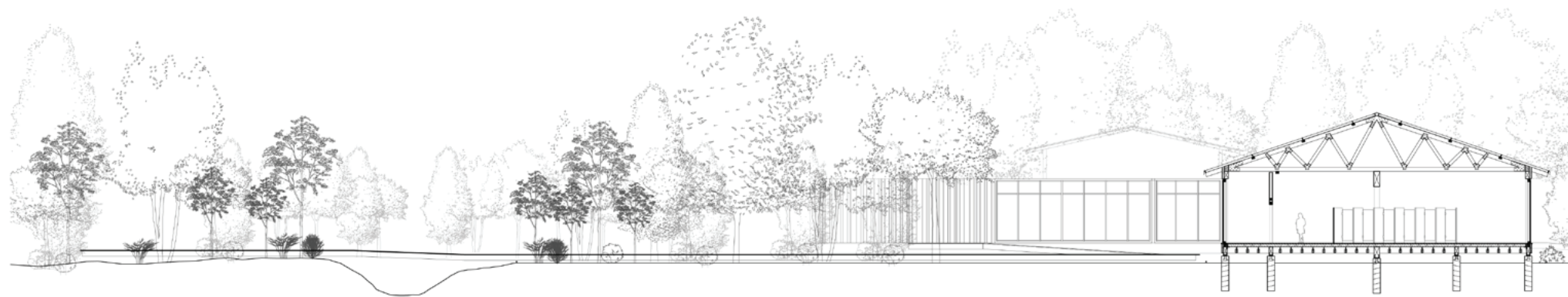
SECRET GARDEN

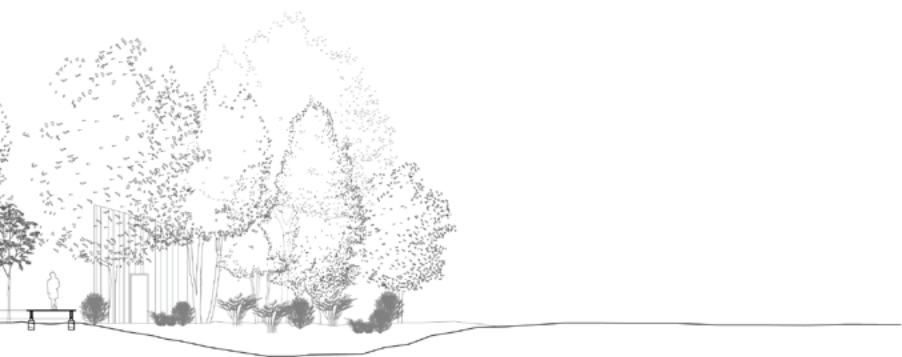
+ FINAL PROJECT FOR ARCHITECTURE DEGREE
+ LANDSCAPE EMBEDDED SPA RETREAT



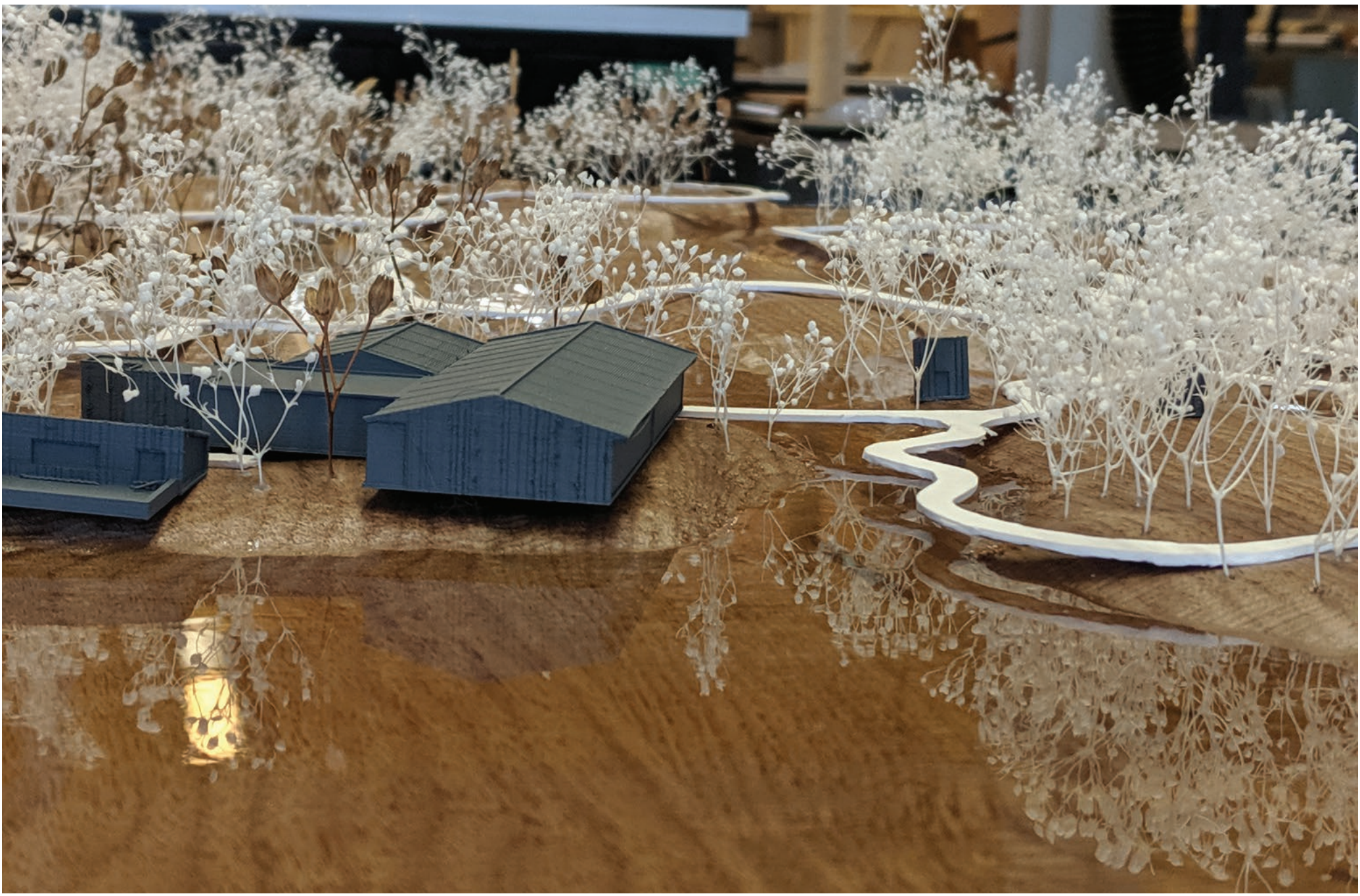
The brief for this project was to create a spa that included several public facing amenities such as a cafe and event hall. My focus was more on the area around the spa, and how it could be used as a therapeutic framing device. The spa is buried within a wild, naturalized landscape that is completely fabricated. Waterways, bridges, and overgrown planting zones are utilized to create what would, over time, become a sustainable ecosystem. Through this, the spa is left to be a simple collection of lightweight structures.









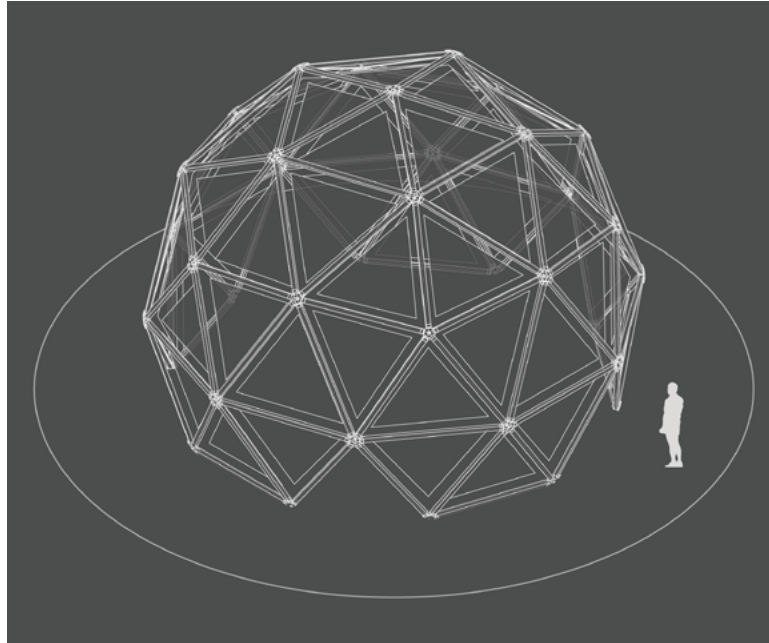






DOMEDOME

+ MULTIMEDIA INSTALLATION FOR NUIT BLANCHE 2014



Project DOMEDOME was initiated near the start of my time at University, by myself and two friends who were looking to do something for Nuit Blanche the following year. We wanted to do something big, something structural, and something that we could host a myriad of local DJs in. The structure itself is made of engineered wood studs and custom fabricated steel connector plates. All of the projection screens are old sails recycled from a nearby sailing club, and the footage projected onto them was collected from various cities around the world, via drone.





PLANETEREAUM

BIRTHDAY BOY
COLOURBLIND
COSELLA
GIORGIO VERSANI
KASEL
LIGHTLY TOASTED
NIGHTIZM
RYME
WESKA
ZAID EDGHAIM

GORE PARK OCT 4TH - 5TH
WATERLOO ARCHITECTURE

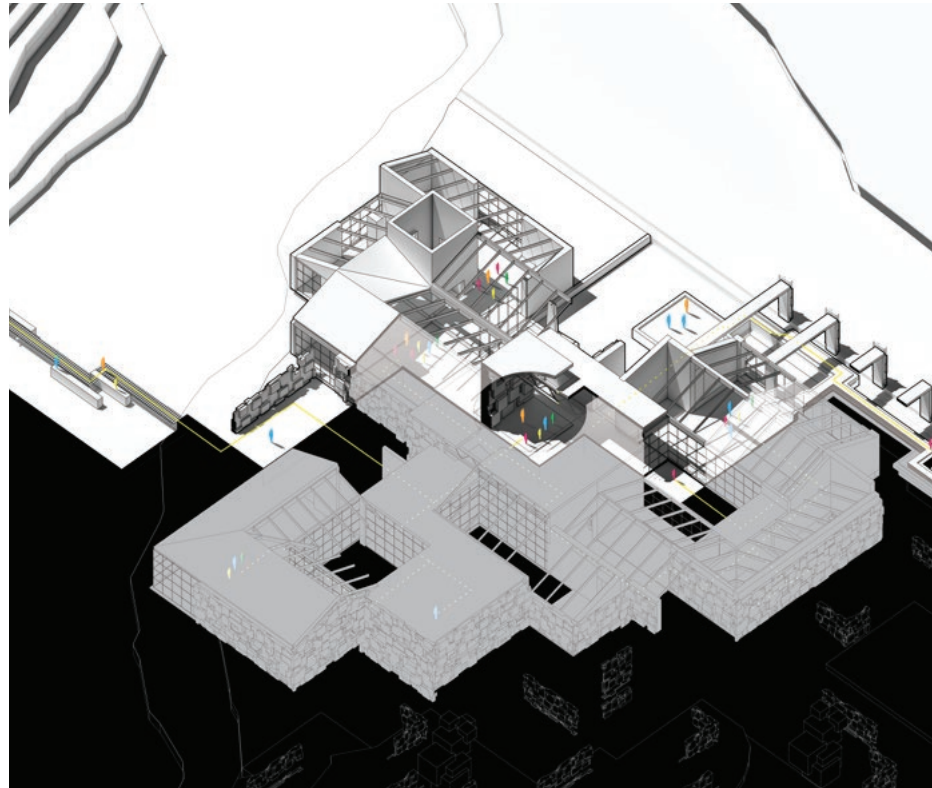


scotiabank nuit blanche



REMNANT

+ OUTDOOR EDUCATION AND RECREATION COMPLEX
IN THE DON VALLEY
+ A SERIES OF OVERGROWN HARDSCAPES
INTEGRATED WITH THE ELEMENTS



The project brief for this studio was to create an outdoor education and recreation complex within the Don Valley. My strategy was to dissolve the indoor/outdoor barrier by removing windows and doors, and using materials that can withstand being exposed to the elements. This allowed the entire structure to become outdoor learning space, where nature could flow in as it pleased and recreation of all kinds could happen throughout. In this way the project changes over time, offering new experiences over the years.

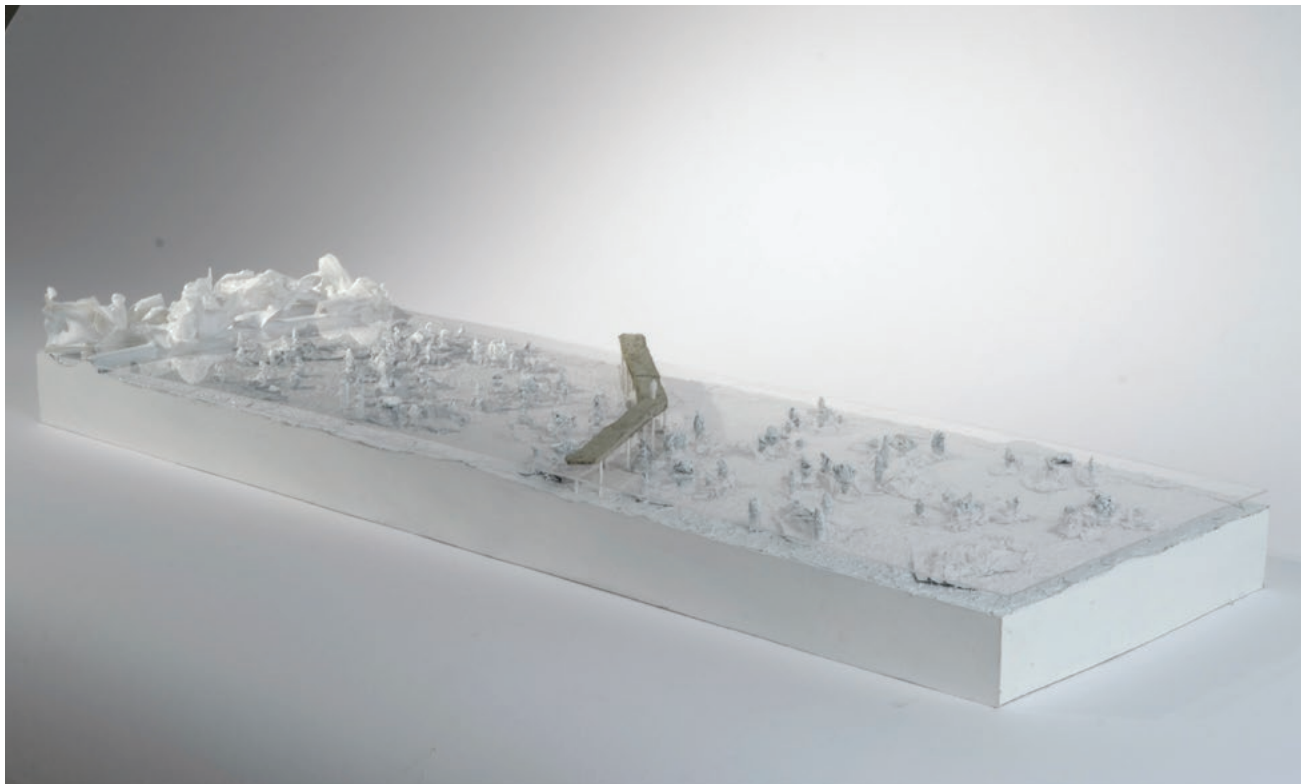


UNZOO

+ A SERIES OF LANDSCAPE INTERVENTIONS ALONG THE DON VALLEY
+ COLLABORATION WITH BRENDA REID



The Unzoo is a series of interventions that restricts human flow in such a way as to both create natural viewing opportunities for visitors, and to allow animals to exist within their natural habitats. A diverted river creates an island unreachable by humans, observable from a large concrete retaining wall. Pathways meander through wetlands, dotted by slender towers for bird habitation, and large towers for human observation.











Hello again,

Thanks for taking the time to look through my work. Feel free to reach out with inquiries, or just to get in touch.

All the best,

Aaron Côté

+1.647.524.2683
aarongcote@gmail.com
